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# ECHINODERMA

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†*Archaeocidaris barroisi* sp. n. Permian Tunis pp. 39–42 pl. i figs. 2–12, 15, *manhattanensis* sp. n. Permian Texas p. 41, MATHIEU Ann. Mines Geol. Tunis No. 4; *rossica*, Id. p. 40 pl. iii fig. 1.—*A. sp.* cf. *urii*, SIEVERTS-DORECH 281 p. 117 pl. viii fig. 5.—*A. cf. propinqua* p. 99 pl. cxxxii fig. 23, *A. sp.* p. 99 pl. cxxxii figs. 24–27, TERMIER & TERMIER 309.

†*Asterobrissus* cf. *pomeli*, ROIG 248 p. 129.

†*Asterostoma dickersoni* sp. n. Eocene Cuba, ROIG Paleont. Cubana 1 1949 pp. 180–181 pl. xxxi fig. 1, pl. xxxii fig. 1; *excentricum*, Id. p. 178 pl. xxix fig. 1, pl. xxx fig. 1.—*A. excentricum*, MORTENSEN 191 p. 563 figs. 285–286.

†*Atelospatangus* with *A. transilvanus*, MORTENSEN 191 p. 78.

†*Australanthus* see *Procassidulus*.

†*Besairiecidaris ankarensis*, MORTENSEN 191 p. 557.

†*Blaviaster* with *B. grossouvrei*, MORTENSEN 191 p. 367.

†*Bothryopygus cubae*, ROIG 248 pl. xli figs. 12–13.

†*Botriopygus jesus mariae* sp. n. Cretaceous Cuba, ROIG Paleont. Cubana 1 1949 pp. 129–130.—*B. jesus-mariae*, ROIG 249 p. 64 pl. xxxix figs. 2–3.

*Breynia* p. 128 with *B. australasiae* p. 132 figs. 64, 67, 69a, 70a, 71a–b, 74, pl. x figs. 1–5, pl. xi fig. 2, pl. xii figs. 8–9, 11, 13, pl. xiv figs. 3–5, pl. xl ix figs. 1–5, 20, 25–30, 32, *desorii* p. 139 fig. 70b, pl. xi figs. 3–5, pl. xii figs. 1, 7, 12, pl. xiv figs. 1–2, 6–7, pl. xl ix fig. 21, *elegans* p. 142 figs. 63, 68, 69b, 71c, 72–73, pl. xi figs. 1, 6–7, pl. xiv fig. 10, pl. xl ix figs. 6, 8, 22, 31, *vredenburgi* p. 145, *B. sp.* p. 138 pl. xl ix figs. 9, 11, MORTENSEN 191.

†*Breynia*, discussion of fossil spp., MORTENSEN 191 p. 129.

*Brisaster* p. 280 with *B. capensis* p. 286 pl. xxv figs. 4–10, *fragilis* p. 283 pl. xxiii figs. 1, 16–19, *kerguelensis* p. 294 pl. xxv figs. 11–14, pl. liii figs. 20, 28, *latifrons* p. 289 pl. xxiii figs. 2–3, 9, pl. liii fig. 16, *moseleyi* p. 292 pl. liii figs. 6, 8–9, 13, *owstoni* p. 291 pl. xxiii figs. 7–8, 11–15, pl. liii figs. 11, 14, 17–19, *townsendi* p. 288 pl. xxiv figs. 1–2, 9–19, pl. liii figs. 21–27, MORTENSEN 191.

†*Brissaster* see *Schizaster*.

†*Brissoides camagüeyanus* Oligocene pp. 206–207 pl. xxv fig. 1, *habanensis* Oligocene pp. 204–205 pl. xxiii fig. 4, *lajasensis* Oligocene pp. 203–204 pl. xxiv fig. 1, *minutus* Oligocene p. 205, *palmeri* Oligocene pp. 205–206 pl. xxv figs. 4–5, *sánchezi* Lambert [ms.] Oligocene p. 211 pl. xxiv figs. 2–3, *stefaninii* Eocene pp. 207–208 pl. xxiii fig. 1, spp. n. Cuba, ROIG Paleont. Cubana 1 1949; *almerai* p. 203, *antillarum* p. 201, *brevipetalum* p. 199, *carolinensis* p. 208, *cubensis* p. 200, aff. *depressus* p. 209, *floridanus* p. 202, aff. *formosus* p. 210, *grandiflorus* p. 208, *herrerae* p. 196, *muñozii* p. 197, ID.—*B. minutus*, ROIG 249 p. 64 pl. xxxix figs. 12–13.

†*Brissoides* (section *Spatangomorpha*) *santanae* sp. n. Oligocene Cuba, ROIG Paleont. Cubana 1 1949 pp. 210–211 pl. xxv figs. 2–3.

†*Brissolampas santanae* sp. n. Oligocene Cuba, ROIG Paleont. Cubana 1 1949 pp. 190–191 pl. xxii figs. 3–4.

†*Brissoma habanensis* sp. n. Oligocene Cuba, ROIG Paleont. Cubana 1 1949 pp. 224–225 pl. xxxv figs. 3–4; *antillarum*, ID. p. 223.

†*Brissopatagus* with *B. caumonti*, MORTENSEN 191 p. 453.

†*Brissopatagus* see *Eupatagus*.

†*Brissopneustes danicum*, possible apicad marsupium, MORTENSEN 191 p. 577.

*Brissopsis jarlii* sp. n. Tropical West Africa, MORTENSEN Atlantide Report No. 2 pp. 302–303 fig. 1, pl. i figs. 1–3; *atlantica*, ID. p. 301 pl. i fig. 4, pl. ii figs. 1–2.—*B. p. 371* with *B. alta* p. 390 figs. 184b, 185b, 187b, 188b, 190a, pl. lvii fig. 21, *atlantica* p. 415 fig. 199b, pl. xxxi fig. 11, pl. lix fig. 7 with var. *mediterranea* p. 419 fig. 199a, *B. Bengalensis* p. 412 pl. xxx fig. 6, pl. xxxi figs. 1–2, 4, pl. xxxii figs. 1–3, pl. lix figs. 8–9, 14–15, *columbaris* p. 392 pl. xxxi fig. 12, pl. xxxii fig. 18, pl. xxxix figs. 7–8, pl. lvii fig. 16, pl. lviii fig. 4?, pl. lix figs. 2–3, *elongata* p. 424 figs. 184c, 185c, 196b, 202a, 203a, pl. lvii fig. 1, *evanescens* p. 429 figs. 205–207, pl. xxii figs. 1–5, pl. lix fig. 11, *jarlii* p. 431 pl. lvii figs. 8–9, 11, 13–14, 18–20, *luzonica* p. 397 figs. 190b, 192, 194a, 195, 196a, 199c, pl. xxxii figs. 2–4, 12–14, 19, 21, pl. xxxix fig. 12, pl. lvi figs. 2, 4–5, 8–11, 13–15, 18–29, *lyrifera* p. 380 figs. 184a, 185a, 186, 187a, 188a, 189, pl. xxx figs. 4, 7–12, pl. xxxii figs. 20, 22, pl. lvii fig. 15 with var. *capensis* p. 387 pl. xxx figs. 1–3, 13, pl. xxxii fig. 15. *B. micropetala* p. 406 figs. 184d, 197, 198b, pl. xxx fig. 5, pl. xxxi fig. 8, pl. xxxii fig. 1, pl. xxxiii figs. 4–6, pl. lvii figs. 2–5, 10, pl. lix fig. 21, *obliqua* p. 427 figs. 193, 194d, 196c, 202b, 203b, 204, pl. xxxii figs. 6–11, 17, pl. lvii fig. 6, pl. lix figs. 10, 12–13, 20, *oldhami* p. 409 fig. 198a, pl. xxxi fig. 10, pl. lviii figs. 1–3, 5–20, *pacifica* p. 420 figs. 194e, 200–201 pl. xxxii fig. 16, pl. xxxiv figs. 6–10, pl. lvi figs. 1, 3, 6–7, 12, 16–17, *parallela* p. 415, *persica* with var. *elevata* p. 432, *similis* p. 404 figs. 194b, 196d, pl. xxvi fig. 10,

pl. xxxi figs. 3, 9, pl. xxxii fig. 5, pl. lvii figs. 7, 12, pl. lix figs. 4-6, 16-19, *zealandiae* p. 395 figs. 185d, 188c, 191, 194c, 203c, pl. xxxi figs. 5-7, pl. lvii fig. 17, pl. lix fig. 1, MORTENSEN 191.

†*Brissopsis*, discussion of spp., MORTENSEN 191 p. 377.—*B. jimenoi*, ROIG 248 p. 225.

*Brissus* Gray 1825, decision to place on "Official list of generic names in Zoology" with type *Spatangus brissus* var. *unicolor* Leske 1778 1 p. 527.—*B.* p. 505 with *B. gigas* p. 518, *latecarinatus* p. 514 fig. 264, pl. xxxiii fig. 8, pl. xxxiv figs. 3-5, pl. lxiii figs. 8-10, 22, 25-26, *obesus* p. 518 pl. lxiii figs. 3, 7, 11-12, *unicolor* p. 509 fig. 263, pl. xxxviii fig. 10, MORTENSEN 191.

†*Brissus*, discussion of spp., MORTENSEN 191 p. 508.—*B. brissus* p. 235, *camagüeyensis* p. 234, *sagrae* p. 233, ROIG 248.

*Brissus (Allobrissus)* p. 520 with *B. (A.) agassizii* p. 520 pl. xxxiii fig. 7, pl. xxxiv fig. 2, pl. xxxv figs. 1, 6-8, pl. lxii figs. 9-10, 12, 16-21, 23-28, *meridionalis* p. 522 pl. xxxiv fig. 1, pl. xxxv figs. 2-5, pl. lxii fig. 22, pl. lxiii figs. 1-2, 4-6, 24, MORTENSEN 191.

†*Bunactis* see *Clypeaster*.

†*Cardiaster palmeri* sp. n. Cretaceous Cuba, ROIG Paleont. Cubana 1 1949 pp. 172-173 pl. v figs. 3-5; *cubensis*, Id. p. 171.

†*Cassidulus* cf. *daradensis*, GORODISKI 106 p. 325 pl. i figs. 5-6.

†*Cassidulus (Pygorhynchus) riveroi* sp. n. Oligocene Cuba, ROIG Paleont. Cubana 1 1949 pp. 125-126 pl. xvii fig. 1.

†*Cassidulus (Rhynchopygus) depressus*, ROIG 248 p. 141.

†*Catopygus jeanneti* p. 130, *rodriguezi* p. 131, ROIG 248.

*Centrostephanus longispinus*, MORTENSEN 192 p. 296.

†*Centrostephanus habanensis*, ROIG 248 p. 32.

†*Cestobrissus* with *C. lorioli*, MORTENSEN 191 p. 349.

†*Chuniola* with *C. caroliniae*, MORTENSEN 191 p. 146.

†*Cidaris aculeata* sp. n. p. 10 pl. i fig. 8, *dorsata coronata* var. n. p. 8 pl. ii fig. 20, *dorsata jugulata* var. n. pp. 7-8 pl. ii figs. 15-19, *magna* sp. n. p. 5 pl. ii fig. 26a,

*pyramidalis* sp. n. p. 10 pl. ii fig. 25, *raibiana capitata* var. n. p. 9 pl. i figs. 9-10, pl. ii figs. 11-14, *scrobiculata* *rumerlensis* var. n. p. 6 pl. i figs. 3-5, *staulinensis* sp. n. p. 6 pl. ii fig. 30, *trigona cuspidata* var. n. p. 7 pl. i fig. 6, *zardini* sp. n. p. 9 pl. ii figs. 21-24, 26b, Trias Italy, LEONARDI & Lovo Studi Trentini 27; *C. crenulata* n.f. [sic] p. 6 pl. ii figs. 27-29; *C. pusilla* n.f. [sic] p. 8 pl. i fig. 7, Id.—*C. assulaiformis* sp. n. Oligocene Italy, MALARODA Mem. Mus. Stor. nat. Verona 2 pp. 158-159 pl. ii figs. 6-7, 11-13; *munsteri* p. 157, *subcylindrica* p. 157 pl. ii figs. 5, 8-10, *C. sp.* p. 159 pl. ii figs. 14-16, Id.—*C. cubensis* p. 24, *foveata* p. 26, *loveni* p. 25, *mellitensis* p. 26, *peloria* p. 26, *tribuloides* p. 25, ROIG 248.

[*Cidarites (Phyllacanthus)*] *dubius* Brandt 1835 placed on "Official list of specific trivial names in Zoology" 1 p. 522.

*Cionobrissus* p. 433 with *C. revinctus* p. 434 figs. 208-211, pl. lxiv figs. 14, 23, MORTENSEN 191.

†*Cionobrissus*, discussion of spp., MORTENSEN 191 p. 434.

*Clypeaster micropetalus* p. 761, *rangianus* p. 761 fig., DUVAL 81.—*C. australasiae*, POPE 233 p. 145 fig.

†*Clypeaster chiapasensis* sp. n. Lower Tertiary Mexico, MULLER RIED Rev. Soc. mex. Hist. nat. 12 pp. 211-216 figs. 1-3; *C. chiapasensis* juv. p. 220 figs. 4-6, Id.—*C. brodermanni* Oligocene pp. 74-75 pl. ix figs. 1-3, *canimarensis* Palmer ms. Pleistocene p. 78, *mari-bonensis* Pleistocene p. 77 pl. ix figs. 6-7, *ovatus* Palmer ms. Oligocene pp. 73-74, *sanrafaelensis* Palmer ms. Oligocene p. 75, spp. n. Cuba, ROIG Paleont. Cubana 1 1949; *antillarum* p. 66, *batheri* p. 67, *caudatus* p. 80 pl. x fig. 2, *concurvus* p. 68, *cotteaui* p. 68, *cryptopetalus* p. 76, *cubensis* p. 69, *dalli* p. 79, *lanceolatus* p. 70, *oxybaphon* p. 81, *parrae* p. 71, *parrus* p. 73, *placentoides* p. 76, *planipetalum* p. 72, aff. *rogersi* p. 82 pl. viii fig. 4, *rosaceus* p. 78, *subdepressus* p. 82, Id.—*C. moronensis* sp. n. Oligocene-Miocene Cuba, ROIG Mem. Soc. cubana Hist. nat. 20 pp. 41-42 pl. xxiii fig. 1, pl. xxiv fig. 1.

†*Clypeaster* (Section *Bunactis*) *sandovali* sp. n. Miocene Cuba, ROIG Paleont. Cubana 1 1949 pp. 89-90 pl. xiii figs. 1-2; *sanchezi*, Id. p. 87.

†*Clypeaster* (Section *Coronanthus*) *palmeri* Miocene p. 85, *pinarensis* Lambert & Roig Miocene p. 86 pl. xii figs. 1-2, *polygonalis* Miocene pp. 84-85 pl. vii figs. 1-2, *tenuicoronae* Palmer [ms.] Oligocene p. 87 pl. xiv fig. 3, spp. n. Cuba, ROIG Paleont. Cubana 1 1949.

†*Clypeaster* (Section *Laganidea*) *planus* sp. n. Oligocene Cuba, ROIG Paleont. Cubana 1 1949 p. 93 pl. ix figs. 4-5.

†*Clypeaster* (*Palaeanthus*) *profundus*, PINAR 232 p. 46.

†*Clypeaster* (Section *Paratinanthus*) *densus* Oligocene pp. 90-91 pl. xi figs. 1-3, *profundus* Miocene pp. 91-92 pl. vi figs. 1-3, spp. n. Cuba, ROIG Paleont. Cubana 1 1949; *platygaster*, Id. p. 92.

†*Clypeaster* (Section *Plyophima*) *elevatus* sp. n. Miocene Cuba, ROIG Paleont. Cubana 1 1949 pp. 83-84 pl. viii figs. 1-3, pl. x fig. 1; *abruptus*, Id. p. 83.

†*Clypeaster* (*Tholeopelta*) *hernandezii* sp. n. Oligocene Cuba, ROIG Paleont. Cubana 1 1949 p. 94 pl. 1 figs. 1-2.

†*Clypeopyqus* *habanensis*, ROIG 248 p. 128.

†*Codiopsis ciae*, ROIG 248 p. 49.

*Colobocentrotus* (*Podophora*) *atratus*, TORTONESE 314 p. 40.

†*Conoclypeus sanctispiritensis* sp. n. Cretaceous Cuba, ROIG Paleont. Cubana 1 1949 p. 63 pl. xxi figs. 5-6; *cretacicus*, Id. pl. xxi figs. 3-4.

†*Conulus cubensis* sp. n. Cretaceous Cuba, ROIG Paleont. Cubana 1 1949 pp. 58-59; *antillensis*, Id. p. 59.—*C. cubensis*, ROIG 249 p. 64 pl. xl figs. 2-4.

†*Coraster madrugensis*, ROIG 248 pl. xxxv figs. 5-6.

*Coronanthus* see *Clypeaster*.

†*Cossmannaster hemisphaericus*, ROIG 248 p. 144.

†*Cravenechinus uniserialis*, MORTENSEN 191 p. 552.

*Cyclaster recens* p. 443 figs. 216-218, pl. xxvi figs. 1-3, MORTENSEN 191.

†*Cyclaster brodermanni* sp. n. Eocene Cuba, ROIG Paleont. Cubana 1 1949 p. 221 pl. xxxv figs. 1-2; *jacksoni* p. 219, *sanchezi* p. 218, aff. *sterea* p. 222, Id.—*C. with C. declivus*, MORTENSEN 191 p. 441.

†*Cylindrolampas* see *Echinolampas*.

†*Cypholampas* see *Echinolampas*.

†*Deakia* see *Macropneustes*.

*Dendraster eccentricus*, JOHNSON & JOHNSON 141 p. 80 figs. 18-28.

*Diadema* Gray 1825, placed on "Official list of generic names in Zoology" with type *Echinometra setosa* Leske 1778 1 p. 384.

†*Diadema principeana*, ROIG 248 p. 33.

†*Diplodetus* with *D. brevistella*, MORTENSEN 191 p. 370.

†*Diplodia cretacea* sp. n. Cretaceous Cuba, ROIG Paleont. Cubana 1 1949 p. 35 pl. i figs. 10-11.—*D. halperi* p. 9 pl. i figs. 10-12, *inxpectata* p. 2 pl. i fig. 13, CHECCHIA-RISPOLI 36.

*Diplopaster* p. 239 with *D. barbatus* figs. 121-122, 142b, pl. xxv figs. 1-3, pl. liii figs. 1, 3-5, 7, 10, 12, 15, *D. savignyi* p. 241 fig. 142c, MORTENSEN 191.

†*Discoides pulvinatus*, ROIG 248 p. 57.

†*Dorocidaris* see *Phyllacanthus*.

†*Echinanthus issyaviensis*, PINAR 232 p. 45.—*E. antillarum* p. 143, *parallelus* p. 142, ROIG 248.

*Echinarachnius* Gray 1825, placed on "Official list of generic names in Zoology" with type *Scutella parma* Lamarck 1816, 1 p. 535.

†*Echinarachnius* (*Scaphechinus*) *rari-*  
talis sp. n. Miocene Japan, NISIYAMA Res. Bull. Saito Ho-on Kai Mus. No. 21 pp. 3-5 figs. 1-3.

†*Echinobrissus cubensis*, ROIG 248 p. 127 pl. xxxvi figs. 7-8.

*Echinocardium* Gray 1825, placed on "Official list of generic names in Zoology" with type *Echinus cordatus* Pennant 1777, 1 p. 527.—*E. p.* 149 with *E. capense* p. 160, *connectens* p. 160, *cordatum* p. 152 pl. xviii figs. 1-3, 6-8, *flavescens* p. 158, *keiense* p. 165 pl. xviii figs. 4-5, pl. xlvi figs. 4, 6-7, 9, 11, *laevigaster* p. 161, *lymani* p. 164, *mediterraneum* p. 162, *mortenseni* p. 161, *pennatifidum* p. 163, MORTENSEN 191.

†*Echinocardium*, discussion of fossil spp., MORTENSEN 191 p. 151.

†[*Echinocerus*] *scutatus* Knorr 1768, a reputed but non-existent name, request to place on "Official index of rejected and invalid specific and trivial names in Zoology," ENGEL 83.

†*Echinocorys sulcatus hannaee* subsp. n.  
Cretaceous Germany, KÖSTER Geol. Fören. Stockh. Förh. 72 1950 pp. 440–452 figs. 1–3; *E. sulcatus*, Id. p. 437 fig. 4.—*E. ovatus* with *cubensis* pp. 175–176 pl. iv figs. 3–4, and *villarensis* p. 176 pl. xxi figs. 1–2 subsp. n. Cretaceous Cuba, ROIG Paleont. Cubana 1 1949.

*Echinocyamus* van Phelsum 1774, placed on "Official list of generic names in Zoology" with type *E. pusillus* Müller 1776, [*E.*] *pusillus* Müller 1876 placed on "Official list of specific trivial names in Zoology," 1 p. 519.

†*Echinocyamus avilensis*, ROIG 248 p. 63.

*Echinodiscus* Leske 1778, placed on "Official list of generic names in Zoology" with type *E. bisperforatus* Leske 1778, [*E.*] *bisperforatus* Leske 1778 placed on "Official list of specific trivial names in Zoology," 1 p. 535.—*E. auritus*, *bisperforatus*, GRAVELY 107 p. 90 figs. 3–4.

†*Echinogalerus bochotnicensis* sp. n.  
Cretaceous Poland, KONGIEL Acta Geol. Polonica 1 1950 pp. 316–317, 323–324 pl. ii figs. 1–4.

*Echinolampas* sp., GRAVELY 107 p. 91 fig. 31.

†*Echinolampas caranoi* pp. 29–30 pl. ii fig. 2, *migiurtinus* pp. 24–26 pl. i fig. 2, *migliorinii* pp. 28–29 pl. ii fig. 1, spp. n.  
Eocene. N. Africa, CHECCIA-RISPOLI Boll. Uff. geol. Ital. 70 1950; *frassi*, Id. p. 26 pl. ii fig. 3.—*E. santa clarae* sp. n.  
Oligocene Cuba, ROIG Mem. Soc. cubana Hist. nat. 20 pp. 55–56 pl. xxxii figs. 1–2.—*E. anceps* p. 328, *cuvillieri* p. 329, GORODISKI 106.—*E. affinis* p. 42, *burdigalensis* p. 43, *calvimontanus* p. 44, *escheri* p. 41, *politius* p. 41, PINAR 232.—*E. camagüeyensis* p. 148, *lycopersicus* p. 146, ROIG 248.

• †*Echinolampas* (Section *Cylindrolampas*) *clevei*, ROIG 248 p. 156.

†*Echinolampas* (Section *Cypholampas*) *anguillae* p. 155, *castroi* p. 154, ROIG 248.

†*Echinolampas* (Section *Macrolampas*) *hemisphericus* var. *cubensis* var. n.  
Palmer [ms.] Miocene pp. 149–150, *E. umbella* sp. n. Palmer [ms.] Oligocene pp. 151–152, Cuba, ROIG Paleont. Cubana 1 1949; *semiorbis*, Id. p. 150.—*E. (M.) baldaccii*, PINAR 232.

†*Echinolampas* (Section *Miolampas*) *cojimarensis* sp. n.  
Oligocene Cuba, ROIG Paleont. Cubana 1 1949 pp. 152–153 pl. xix figs. 4–5; *nuevitasensis*, Id. p. 153.

†*Echinolampas* (Section *Paleolampas*) *muñozi* sp. n.  
Oligocene Cuba, ROIG Paleont. Cubana 1 1949 pp. 157–158 pl. xix figs. 1–3; *mestrei*, Id. p. 158.

†*Echinolampas* (*Progonolampas*) *sanchezi* sp. n.  
Oligocene Cuba, ROIG Paleont. Cubana 1 1949 p. 159 pl. xix figs. 6–7.

[*Echinometra*] *setosa* Leske 1778, placed on "Official list of specific trivial names in Zoology," 1 p. 385.

*Echinometra mathaei violacea*, TORTONESE 314 p. 39.

†*Echinometra prisca*, ROIG 248 p. 48.

†*Echinoneus cyclostomus* p. 118, *orbicularis* p. 119, *sanchezi* p. 117, ROIG 248.

†*Echinospatagus hofmanni*, MÜLLER 204 p. 131 fig. 77.

[*Echinus*] *cordatus* Pennant 1777, *drobachiensis* Müller 1776, placed on "Official list of specific trivial names in Zoology," 1 pp. 522, 528.—[*E.*] *placenta* Linnaeus 1758, placed on "Official list of specific trivial names in Zoology," 1 p. 535.—[*E.*] *radiatus* Gmelin 1790, request to place on "Official index of rejected and invalid specific trivial names in Zoology," ENGEL 83.

†*Ellipsechinus palmeri* sp. n.  
Lambert ms. Pleistocene? Cuba, ROIG Paleont. Cubana 1 1949 pp. 46–47 pl. ii figs. 5–6.—*E. lacunter*, ROIG 269 p. 64 pl. xl fig. 5.

†*Encope ciae* p. 116, WIEDENMAYERI p. 117, ROIG 248.

*Eupatagus* p. 456 with *E. lymani* p. 472, *micropetalus* p. 474 figs. 220b, 243–245, pl. lxi fig. 14, *obscurus* p. 473, *ruberlus* p. 470 figs. 238, 240, 242b–c, pl. xxvii figs. 4–5, 11, pl. lx figs. 12, 15, 17, 23, 29, *valenciennesi* p. 466 figs. 229, 236–237, 239, 241, 242a, pl. xxvii figs. 1–3, 6–7, pl. lx figs. 20–22, 24, 27, MORTENSEN 191.

†*Eupatagus*, discussion of spp., MORTENSEN 191 p. 460.—*E. siboneyensis*, ROIG 248 p. 213.

†*Eupatagus* (*Brissopatagus*) *avilensis* sp. n.  
Oligocene Cuba, ROIG Mem. Soc. cubana Hist. nat. 20 pp. 45–46 pl. xxxiii figs. 2–3.

†*Eupatagus (Gymnopatagus) brevipetatum* pp. 44–45 pl. xxxiii fig. 1, pl. xxxvii fig. 1, *rogasi* p. 42 pl. xxiv fig. 3, *venturillae* p. 43 pl. xxvi figs. 1–2, *zanolleti* pp. 43–44 pl. xxxii fig. 3, spp. n. Oligocene Cuba, ROIG Mem. Soc. cubana Hist. nat. 20.

†*Eupatagus (Plagiobrissus) herrarae* pp. 46–47 pl. xxv figs. 1–2, *santanae* pp. 47–48 pl. xxxvii fig. 2, spp. n. Oligocene Cuba, ROIG Mem. Soc. cubana Hist. nat. 20.

†*Eurhodia corralesi* sp. n. Eocene Cuba, ROIG Mem. Soc. cubana Hist. nat. 20 p. 61 pl. xxxiii figs. 4–5.

*Eurytagus parvituberculatus*, MORTENSEN 191 pl. xii fig. 3.

*Euspatangus rogeri* sp. n. Eocene Turkey, PINAR Bull. Soc. géol. Fr. 6 1 47–49 fig. 8, pl. ib figs. 4–5.

*Faorina* p. 243 with *F. chinensis* p. 245 figs. 123–125, pl. xx figs. 1–8, pl. lii figs. 8, 10–11, 14, 16–17, 20, 23–27, MORTENSEN 191.

*Fibularia* Lamarck 1816, placed on "Official list of generic names in Zoology" with type *Fibularia ovulum* Lamarck 1816, [*F.*] *ovulum* Lamarck 1816 placed on "Official list of specific trivial names in Zoology," 1 p. 519.

†*Fibularia minuta* sp. n. Palmer ms. Eocene Cuba, ROIG Paleont. Cubana 1 1949 pp. 64–65; *macrostoma*, Id. p. 64.

†*Fourtaunia* with *F. santamariai*, MORTENSEN 191 p. 548.

†*Galeraster terkosensis* sp. n. Eocene Turkey, PINAR Bull. Soc. géol. Fr. 6 1 pp. 38–40 figs. 3, 5–6, pl. ib fig. 1.

†*Galerolampas murardi* sp. n. Eocene Senegal, GORODISKI Bull. Mus. Hist. nat. Paris (2) 23 pp. 323–325 pl. i figs. 8–9.

†*Gauthieria ? pseudoradiata*, KONGIEL 145 pp. 314, 322 pl. i figs. 5–8.—*G. sanchezi*, ROIG 248 p. 45.

*Gonimaretia*, MORTENSEN 191 p. 55.

*Goniocidaris tubaria*, POPE 233 p. 145 fig.

†*Goniocidaris habanensis* Eocene pp. 30–31 pl. i fig. 5, *holguinensis* Oligocene p. 31, spp. n. Cuba, ROIG Paleont. Cubana 1 1949.

†*Goniopygus madrugensis* pp. 53–54 pl. ii figs. 11–12, *jeanneti* pp. 54–55 pl. ii figs. 7–8, spp. n. Cretaceous Cuba, ROIG

Paleont. Cubana 1 1949; *ameri* p. 51, *sanchezi* p. 52, *supremus* p. 50, Id.

†*Granobrissoides* with *G. australiae*, MORTENSEN 191 p. 367.

*Granopatagus* see *Spatangus*.

*Gualtieria* with *G. orbigniana*, MORTENSEN 191 p. 365.

†*Gymnocidaris gortanii* sp. n. Jurassic N. Africa, MACCAGNO Boll. Uff. geol. Ital. 70 1950 pp. 95–96 pl. ii fig. 15.

*Gymnopatagus* p. 446 with *G. magnus* p. 447 figs. 219, 220a, pl. xxvi figs. 7–9, pl. xxvii figs. 8–10, pl. lxi figs. 19–26, *valdiviae* p. 447, MORTENSEN 191.

†*Gymnopatagus* see *Eupatagus*.

†*Habanaster sanchezi*, ROIG 248 p. 177.

†*Haimea camagüeyana* pp. 122–123 pl. I figs. 6–7, *globulosa* p. 124, *pusilla* p. 123, *truncata* p. 124 pl. I figs. 8–9, spp. n. Eocene Cuba, ROIG Paleont. Cubana 1 1949; *alta*, Id. p. 121.—*H. meunieri*, GORODISKI 106 p. 327 pl. i figs. 10–12.—*H. globulosa* p. 124 pl. xxxix figs. 8–9, *pusilla* p. 64 pl. xxxix fig. 1, ROIG 249.

†*Hebertia calvachei* sp. n. Cretaceous Cuba p. 40 pl. iii figs. 1–2, *jacksoni* sp. n. Lambert Oligocene Cuba p. 39 pl. ii figs. 9–10, ROIG Paleont. Cubana 1 1949.

"*Hemiaster*" *florigerus*, MORTENSEN 191 p. 217.

†*Hemiaster lamberti* sp. n. Cretaceous Cuba, ROIG Paleont. Cubana 1 1949 pp. 238–239 pl. xxxv figs. 7–8; *madrugensis* p. 236, *siboneyensis* p. 237, Id.—*H. bufo* p. 697 fig. 2, *longus* p. 703 fig. 4, *meslei* var. *major* p. 701 fig. 4, ZOEKE 344.

†*Hemiaster (section Integraster) globulosus* sp. n. Oligocene Cuba, ROIG Paleont. Cubana 1 1949 pp. 240–241 pl. xlvi figs. 11–13; *dewalquei*, Id. p. 239.

†*Hemicidaris palmirensis* sp. n. Cretaceous Cuba, ROIG Paleont. Cubana 1 1949 pp. 34–35 pl. i figs. 8–9.—*H. cf. greppini*, JEANNET 137 p. 178 pls. i–ii.—*H. crenularis*, MATHIEU 173 p. 36 pl. iii figs. 2–4.

†*Hemicidaris (Hypodiadema) gregoryi*, MACCAGNO 168 p. 96 pl. i fig. 7, pl. ii fig. 16.

†*Hemifaorina* with *H. tuber*, MORTENSEN 191 p. 350.

†*Hemigymnia* with *H. aturica*, MORTENSEN 191 p. 350.

*Hemimaretia* p. 52 with *H. elevata* p. 53 figs. 23–24, pl. i fig. 4, pl. xliv figs. 5–7, 21, MORTENSEN 191.

†*Hemipatagus cartagensis* sp. n. Eocene Cuba, ROIG Paleont. Cubana 1 1949 pp. 216–217.

†*Hemipedina abreusense* sp. n. Cretaceous Cuba, ROIG Paleont. Cubana 1 1949 pp. 36–37.

†*Hemipneustes* Agassiz 1836, request to place on "Official list of generic names in Zoology," ENGEL 83.

†*Hernandezaster* gen. n. with *H. hernandezi* sp. n. Oligocene Cuba, ROIG Paleont. Cubana 1 1949 pp. 211–213 pl. xxxiii figs. 3–5.

†*Herreraaster* gen. n. p. 52 for type *H. herrarae* sp. n. p. 53 pls. xxx–xxxii Oligocene Cuba, ROIG Mem. Soc. cubana Hist. nat. 20.

†*Heteraster checchiai* sp. n. Cretaceous Italian Somaliland, ALBERTI Boll. Uff. geol. Ital. 70 1950 pp. 133–135 figs. 1–12.

*Heterocentrotus trigonarius*, TORTONESE 314 p. 40.

†*Heterodiadema libicum*, CHECCHIA-RISPOLI 36 p. 6 pl. i figs. 1–9.

†*Hikelaster* with *H. tuberculatus*, MORTENSEN 191 p. 476.

†*Histocidaris sanchezi*, ROIG 248 p. 23.

†*Holectypus decoratus* sp. n. Cretaceous Cuba, ROIG Paleont. Cubana 1 1949 p. 56 pl. i figs. 6–7.

†*Homoeopetalus* with *H. axiologus*, MORTENSEN 191 p. 549.

†*Hypodiadema* see *Hemicidaris*.

*Hypselaster* p. 312 with *H. affinis* p. 321 figs. 146–148, pl. xxii figs. 8–13, pl. lii figs. 12–13, 15, 18–19, *brachyptetalus* p. 320, *dolosus* p. 319 figs. 143b, 145, pl. xxii fig. 6, *fragilis* p. 321, *jukesii* p. 315 pl. xxii figs. 14–17, pl. lii figs. 2, 9, 21–22, *kempi* p. 320, *limiculus* p. 314 figs. 143a, 144, *maximus* p. 321, *rotundus* p. 315, MORTENSEN 191.

*Idiobryssus* with *I. coelus*, MORTENSEN 191 p. 546.

†*Integraster* see *Hemiaster*.

†*Isomicraster stolleyi*, MORTENSEN 191 p. 565.

†*Jacksonaster depressus* p. 108 pl. xvi figs. 6–7, *remediensis* pp. 106–107 pl. xvi fig. 5, *sandiegensis* pp. 107–108 pl. xvi figs. 3–4, spp. n. Eocene Cuba, ROIG Paleont. Cuba 1 1949; *acunai* p. 102 with var. *nuevitasensis* p. 104, *J. cubensis* p. 105, *sanchezi* p. 101, *torrei* p. 104, Id.

†*Kleinia pulchra* sp. n. Eocene N. Africa, CHECCHIA-RISPOLI Boll. Uff. geol. Ital. 70 1950 pp. 31–32 pl. ii fig. 4.

†*Laevipatagus* with *L. bigibbus*, MORTENSEN 191 p. 80.

†*Laganidea* see *Clypeaster*.

†*Laganum lamberti* pp. 108–109 pl. xvi fig. 2, *santanae* pp. 109–110 pl. xv figs. 1–2, spp. n. Oligocene Cuba, ROIG Paleont. Cubana 1 1949; *crustuloides* p. 110, *cubanum* p. 111, Id.

†*Lajanaster hernandezi* sp. n. Oligocene Cuba, ROIG Paleont. Cubana 1 1949 p. 195 pl. xxiii figs. 2–3; *jacksoni*, Id. p. 193 pl. xxvi fig. 1, pl. xxvii fig. 1—*L. guevarai* pp. 53–54 pl. xxiv figs. 2–4, *venturillae* pp. 54–55 pl. xxv figs. 3–4, spp. n. Oligocene Cuba, ROIG Mem. Soc. cubana Hist. nat. 20.—*L.* with *L. jacksoni*, MORTENSEN 191 p. 504.

†*Lanieria lanieri*, ROIG 248 p. 61.

†*Leiocidaris cojimarensis* Lambert & ROIG sp. n. Miocene p. 31, *madrugensis* [ascribed in text to *Dorocidaris*] sp. n. Cretaceous p. 32 pl. i figs. 2, 4, *spinosus* sp. n. Palmer [ms.] Oligocene p. 32 pl. i fig. 3, Cuba, ROIG Paleont. Cubana 1 1949.

†*Leiopedina cienagensis* sp. n. Eocene Cuba, ROIG Paleont. Cubana 1 1949 pp. 42–43 pl. iii figs. 3–4.

†*Leiosoma guadalupense* sp. n. Eocene Cuba, ROIG Paleont. Cubana 1 1949 pp. 48–49 pl. ii figs. 3–4.

†*Lepidesthes formosa* sp. n. Carboniferous Morocco, TERMIER & TERMIER Notes Mem. Serv. Carte géol. Maroc 79 1950 pp. 99, 102 pl. ccxxxi fig. 21.

†*Leptarancia andreni* sp. n. Cretaceous Cuba, ROIG Paleont. Cubana 1 1949 pp. 35–36 pl. ii figs. 1–2.

*Linthia?* sp., MORTENSEN 191 p. 237 fig. 118, pl. xix fig. 3.

†*Linthia mortenseni* sp. n. pp. 36–38 pl. i fig. 4 with var. *depressa* var. n. p. 38 pl. i fig. 5, Eocene N. Africa, CHECCHIA-RISPOLI Boll. Uff. geol. Ital. 70 1950.—

*L. aguayoi* Oligocene pp. 265–266 pl. xlvi figs. 1–2, pl. xl ix fig. 1, *alta* Cretaceous pp. 266–267 pl. xl ix figs. 3–5, *avilensis* Cretaceous p. 264 pl. xxxii figs. 2–3, *brodermanni* Cretaceous pp. 263–264 pl. xl ix figs. 2–4, *cretáica* Cretaceous pp. 264–265 pl. xl vii figs. 1–3, spp. n. Cuba, ROIG Paleont. Cubana 1 1949; *catalinensis* pl. xl viii fig. 5, *minuta* pl. xl viii figs. 3–4, *variabilis*, ID. p. 268.—*L. atolladosae* sp. n. Eocene Cuba, ROIG Mem. Soc. cubana Hist. nat. 20 pp. 59–60 pl. xxxiv figs. 1–2; *avilensis*, ID. p. 64 pl. xl fig. 8.—*L.* with *L. insignis*, MORTENSEN 191 p. 233.

*Lissospatangus* p. 480 with *L. dyscritus* p. 484, *hirsutus* p. 481 figs. 250–252, pl. xxviii figs. 1–2, 5–6, pl. lxi figs. 1–8, MORTENSEN 191.

†*Loriolella ludovicii*, BELLERIO 15 p. 77 fig. 1.

*Lovenia* p. 89 with *L. camarota* p. 110, *cordiformis* p. 104 fig. 48b, pl. ix figs. 1–6, pl. xii figs. 2, 6, 10, pl. xl viii figs. 1–9, pl. xl viii fig. 17, *döderleinii* p. 116 figs. 48c, 56c, 58a, pl. xiii figs 1–3, 9–12, 23, pl. xl viii figs. 4–5, 8–9, 11, 15–16 with var. *acuminata* p. 119 pl. xiii figs. 4, 22, *L. elongata* figs. 41a, 42, 48a, 49–52a, 53a, pl. vii figs. 1–10, pl. viii fig. 1, pl. xii fig. 5, pl. xl viii figs. 10–23, *gregalis* p. 120 figs. 41b, 58b, 59, 60a–b, pl. ix figs. 7–9, pl. xii fig. 4, pl. xl viii figs. 12–14, 18–19, 21–23, *grisea* p. 126, *hawaiensis* p. 108 fig. 52b, pl. xiii figs. 24–30, pl. xl viii figs. 2, 6–7, *subcarinata* p. 110 figs. 54–56b, 57, pl. viii figs. 2–13, pl. xl viii figs. 1, 3, 10, 20, *triforis* p. 123 figs. 60c, 61–62, pl. xiii figs. 31–34, 36, pl. xl figs. 1–2, pl. xl ix figs. 7, 10, 12–19, 23–24, MORTENSEN 191.

†*Lovenia*, discussion of spp., MORTENSEN 191 p. 95.

†*Lutetiaaster maccagnoi* sp. n. Eocene N. Africa, CHECCHIA-RISPOLI Boll. Uff. geol. Ital. 70 1950 pp. 38–39 pl. i fig. 3.—*L.* with *L. subglobosus*, MORTENSEN 191 p. 237.

†*Maccoyia* sp., TERMIER & TERMIER 309 p. 98 pl. cccxxii figs. 1–3.

†*Macraster triangularis* sp. n. Cretaceous Cuba, ROIG Paleont. Cubana 1 1949 p. 217 pl. xxxiv figs. 1–2.

†*Macrolampas* see *Echinolampas*.

†*Macropneustes* with *M. deshayesi*, MORTENSEN 191 p. 450.

†*Macropneustes* (*Deakia*) with *M. (D.) rotundata*, MORTENSEN 191 p. 452.

*Marezia* p. 21 with *M. carinata* p. 39 figs. 16–17, pl. i figs. 5–7, pl. xliv figs. 8, 14–16, *cordata* p. 41 figs. 7c–d, 9, 13b, 18, pl. i figs. 8, 9–10 ?, 11–12, 13 ?, 14–16, pl. xliv figs. 9–10, 20, 25, 28, 30–31, *planulata* p. 27 figs. 6, 7a–b, 8, 10–13a, 14, 53b, pl. iv figs. 1–5, 10–11, pl. v figs. 3–17, pl. xliv figs. 1–4, 18, 26–27, 29, 32–33, *tuberculata* p. 45, MORTENSEN 191.

†*Marezia*, discussion of spp., MORTENSEN 191 p. 26.—*M. estenozii*, ROIG 248 p. 215.

†*Mauritanaster deppreses* sp. n. Oligocene Cuba, ROIG Paleont. Cubana 1 1949 pp. 228–229 pl. xxxiii fig. 1; *cubensis*, ID. p. 227.—*M.* with *M. gentili*, MORTENSEN 191 p. 551.

†*Megalaster*, MORTENSEN 191 p. 169.

†*Megapetalus* with *M. lovenioides*, MORTENSEN 191 p. 147.

†*Mellita testudinata*, ROIG 248 p. 115.

*Meoma* p. 524 with *M. grandis* p. 526 figs. 265–268, pl. xxxvi figs. 2–6, pl. lxii figs. 2–5, 7–8, 11, 13–14, *ventricosa* p. 529 pl. xxxvi fig. 1, pl. lii figs. 1, 6, 15, MORTENSEN 191.

†*Meoma*, discussion of spp., MORTENSEN 191 p. 525.

*Metalia* p. 532 with *M. dicrana* p. 546 pl. xxxvii figs. 1–3, pl. lxiv figs. 6, 12, *latissima* p. 546 pl. xxxvii fig. 9, *nobilis* p. 542 figs. 269b, 270, 271b, pl. xxxvii figs. 4–8, pl. xxxix fig. 5, pl. lxiv figs. 2–4, 8, 11, 16, 18, 20–21, *robillardii* p. 537 pl. xxxi fig. 13, pl. xxxviii figs. 1–2, 4–6, pl. lxiv figs. 7, 15, *spatagus* p. 540 fig. 271a, pl. xxxviii figs. 7–9, pl. xxxix figs. 1–2, 4, pl. lxiv figs. 1, 5, 9–10, 25, *sternalis* p. 535 fig. 269a, pl. lxiv figs. 13, 17, 19, 22, *townsendi* p. 545 pl. xxxviii figs. 3, 11, MORTENSEN 191.

†*Metalia cartagensis* sp. n. Oligocene Cuba, ROIG Paleont. Cubana 1 1949 pp. 232–233.—“*M.*” *lonigensis*, MORTENSEN 191 p. 149.

†*Micraster vistulensis* sp. n. Cretaceous Poland, KONGIEL Acta Geol. Polonica 1 1950 pp. 318–320, 325–326 pl. ii figs. 5–8.—*M. elevatus* sp. n. Cretaceous Cuba, ROIG Paleont. Cubana 1 1949 p. 218 pl. xlvi figs. 4–5.—*M. brongniarti* var. *pseudoglyphus* p. 311 pl. xvi fig. 8, *coranguinum* pp. 311–312 pl. xvi fig. 6, pl. xvii figs. 1–2, cf. *coran-*

*guinum* p. 310 fig. 1, *decipiens* pp. 310–311 figs. 2–3, pl. xvi figs. 4–5, 7, cf. *decipiens* p. 310 pl. xvi fig. 3, *schloenbachii* p. 312 pl. xvii fig. 6, *schröderi* p. 312 pl. xvii fig. 5, *turonensis* p. 312 pl. xvii fig. 3, cf. *turonensis* p. 309 pl. xvi fig. 2, *M.* sp. p. 309 pl. xvi fig. 1, SAINT-SEINE 267.

†*Migliorinia* with *M. migiurtina*, MORTENSEN 191 p. 456.

†*Miolampas* see *Echinolampas*.

*Moira* Agassiz 1872, decision to place on "Official list of generic names in Zoology" with type *Spatangus atropos* Lamarck 1816, 1 p. 528.—*M.* p. 325 with *M. atropos* p. 329 figs. 149a, 150a, pl. xix figs. 15, 20, pl. lv figs. 11, 16, 19–23, *clotho* p. 332 fig. 149b, pl. xix fig. 17, pl. lv fig. 14, *lachesisella* p. 333 fig. 150b, *lethe* p. 334 fig. 151, pl. xix figs. 18, 22, pl. lv figs. 12, 24, *stygia* p. 335 fig. 150c, pl. xix figs. 16, 19, 21, pl. lv figs. 9, 17, 25–26, MORTENSEN 191.

†*Moira*, discussion of spp., MORTENSEN 191 p. 328.

*Moira (Moiopsis)* p. 337 with *M. (M.) claudicans* p. 338 pl. lv fig. 18, MORTENSEN 191.

*Moiopsis* see *Moira*.

*Nacospatangus* p. 74 with *N. depressus* p. 77, *gracilis* p. 76 fig. 36, MORTENSEN 191.

*Neopneustes* p. 363 with *N. micrasteroides* p. 364, MORTENSEN 191.

†*Notechinus* see *Pseudechinus*.

†*Nudobrissus lamberti* sp. n. Eocene Cuba, ROIG Paleont. Cubana 1 1949 pp. 222–223 pl. xxxvi figs. 1–3.—*N.* with *N. malatinus*, MORTENSEN 191 p. 81.

†*Oligopygus camagueyensis* pp. 162–163, *circularis* pp. 159–160 pl. xxix figs. 2–3, *elongatus* Palmer [ms.] pp. 166–167 pl. xxx figs. 4–5, *mullerriedi* pp. 160–161 pl. xxx figs. 2–3, *pinguis* Palmer [ms.] p. 165 pl. xxviii figs. 2–3, spp. n., *floridanus* var. *laevis* Palmer [ms.] p. 166 var. n., Eocene Cuba, ROIG Paleont. Cubana 1 1949; *collignonii* p. 164, *cubensis* p. 163, *sanchezi* p. 163, Id.—*O. tuberculatus* sp. n. Eocene Cuba, ROIG Mem. Soc. cubana Hist. nat. 20 pp. 56–57 pl. xxxiv figs. 4–5; *camagueyensis*, Id. p. 64 pl. xxxviii figs. 3–4.

†*Opissaster derasmoi* sp. n. Eocene N. Africa, CHECCHIA-RISPOLI Boll. Uff. geol. Ital. 70 1950 pp. 32–34 pl. ii figs. 6–7.

†*Opissaster* see *Trachyaster*.

†*Oppenheimia* with *O. giardinalei*, MORTENSEN 191 p. 20.

*Ova* Gray 1825, decision to place on "Official list of generic names in Zoology" with type *Spatangus canaliferus* Lamarck 1816, 1 p. 528.

*Ova* see *Schizaster*.

*Palaeanthus* see *Clypeaster*.

†*Palaeechinid* genus undet., TERMIER & TERMIER 309 pl. cxxxii fig. 22.

†*Palaeochinus* sp., TERMIER & TERMIER 309 p. 98 pl. cxxxii figs. 29–31, pl. cxxxii fig. 5.

†*Palaeolampas* see *Echinolampas*.

†*Palmeraster* gen. n. p. 268 for type *P. palmeri* sp. n. Eocene Cuba, ROIG Paleont. Cubana 1 1949 p. 269 pl. xxxi figs. 2–4.

†*Parabrissus* with *P. pseudoprenaster*, MORTENSEN 191 p. 348.—*P. pseudoprenaster*, PINAR 232 p. 49.

*Paracentrotus lividus*, boring habit, YONGE 339.

*Paramaretia* p. 46 with *P. multituberula* p. 47 figs. 19–22, pl. iv figs. 6–9, pl. v figs. 1–2, pl. vi figs. 1–5, pl. xiii fig. 37, pl. xlvi figs. 3, 5, 8, 10, 12–22, *peloria* p. 51, MORTENSEN 191.

*Parapneustes* see *Tripylus*.

*Paraster* p. 215 with *P. compactus* p. 221 figs. 104a, 105b, 107, pl. xxiv figs. 3–8, pl. lii figs. 1, 3, *gibberulus* p. 218 figs. 104b, 105a, pl. xxii fig. 7, pl. lii fig. 4, *rotundatus* p. 223, MORTENSEN 191.

†*Paraster orientalis* Oligocene pp. 289–290 pl. xlvi figs. 2–3, *sandiegensis* Eocene pp. 288–289, *tschopi* Palmer [ms.] pp. 290–291 pl. xlvi fig. 1, spp. n. Cuba ROIG Paleont. Cubana 1 1949; *camagueyensis* p. 287, *cartagensis* pl. xliv figs. 6–9, *clarcki* pl. xliv figs. 6, 9, *cubitabellae* p. 285, *nuevitasensis* p. 283, *pastelilloensis* p. 284, Id.—*P. sierrai* sp. n. Pleistocene Cuba, ROIG Mem. Soc. cubana Hist. nat. 20 pp. 63–64 pl. xl fig. 1; *sandiegensis*, Id. p. 64 pl. xl figs. 6–7.—*P.* discussion of spp., MORTENSEN 191 p. 217.

†*Paratinanthus* see *Clypeaster*.

†*Pauropygus alvarezi* p. 168, *ovum-serpentis* p. 167, ROIG 248.

†*Pedina eocénica* sp. n. Eocene Cuba, ROIG Paleont. Cubana 1 1949 pp. 41–42 pl. iii fig. 6; *P. sp.*, ID. p. 42 pl. iii fig. 5.

†*Pedinopsis desori*, CHECCHIA-RISPOLI 36 p. 14 pl. i figs. 20–23.

†*Periarchus lyelli*, ROIG 248 p. 112.

†*Periaster* with genotype *P. elatus*, MORTENSEN 191 p. 212 fig. 102.

†*Peribrissus* with *P. saheliensis*, *sotgaii*, MORTENSEN 191 p. 231.

*Pericosmus* p. 169 with *P. akabanus* p. 178 figs. 84a, 85, 86a–b, 87, pl. xv figs. 1–8, pl. i figs. 16, 19, 21–22, 28–30, 32, *bidens* p. 185 figs. 86d, 89–91a, 95b, pl. xvii figs. 2, 12, 17, 22, pl. i figs. 1–4, 8–11, 20, *cordatus* p. 182 figs. 84b, 86c, 88a, 91b, pl. xvi figs. 1–7, pl. i figs. 15, 18, 23–27, 31, *keiensis* p. 190 figs. 88b, 92a, 93a, 94, 95a, pl. xvii figs. 1, 3, 11, 13, 16, 19, pl. li figs. 4–5, 11, 20–21, 24–25, 27–28, *macronesius* p. 176 pl. xvii figs. 18, 20–21, pl. i figs. 5–7, 12–14, 17, *mauritianus* p. 198 fig. 97c, pl. xvii figs. 8, 10, 23–24, pl. li figs. 8, 15, 26, *melanostomus* p. 194 figs. 95c, 96, 97a, pl. xiii figs. 5–8, 13–21, 35, pl. li figs. 10, 13–14, 16, 19, 23, 29–30, *oblongus* p. 199 fig. 97b, pl. xvii figs. 4–7, 9, pl. li figs. 3, 12, *tenuis* p. 188 figs. 92b–c, 93b, 94, 95a, pl. xiv figs. 8–9, pl. li figs. 1–2, 6–7, 9, 17–18, 22, 31, *P. sp.* p. 201 pl. xvii figs. 14–15, MORTENSEN 191.

†*Pericosmus camagueyanus* Oligocene pp. 246–247 pl. xxxviii figs. 1–2, *cubanus* Palmer [ms.] Eocene p. 248, spp. n. Cuba, ROIG Paleont. Cubana 1 1949; *roigi*, ID. p. 245 pl. xxxviii figs. 3–4. —*P. rojasi* sp. n. Eocene Cuba, ROIG Mem. Soc. cubana Hist. nat. 20 pp. 60–61 pl. xxxvi figs. 2–3.—*P. discussion* of spp., MORTENSEN 191 p. 170.

†*Peronella caribbeana* p. 96, *cubae* p. 97, *mirabilis* p. 98, *quinquenodulata* p. 99, ROIG 248.

*Phyllacanthus* Brandt 1835, decision to place on "Official list of generic names in Zoology" with type *Cidarites (Phyllacanthus) dubius* Brandt 1835, 1 p. 521.

†*Phyllacanthus leoni*, ROIG 248 p. 27.

†*Phyllacanthus (Dorocidaris) damujiensis* p. 30 pl. i fig. 1, *madrugensis* pp. 30–31 pl. i figs. 2, 4, spp. n. Cretaceous Cuba, ROIG Paleont. Cubana 1 1949; *molineti*, ID. p. 28.

†*Phymapatagus* see *Spatangus*.

†*Phymosoma cubense*, ROIG 248 p. 45.

*Plagiobrissus africanus*, DARTEVILLE 69 p. 913 figs. 1–2.—*P. p.* 494 with *P. africanus* p. 498 pl. xlvi figs. 1–2, pl. xlvi figs. 1–2, pl. lxii fig. 14, *grandis* p. 496 fig. 261, pls. xl–xli, pl. lxiii figs. 13, 16, *P. ? sp.* p. 503 pl. xxxix fig. 3, MORTENSEN 191.

†*Plagiobrissus*, discussion of spp., MORTENSEN 191 p. 495.

†*Plagiobrissus* see *Eupatagus*.

*Plagiobrissus (Rhabdobraissus)* p. 500 with *P. (R.) costae* p. 502, *jullieni* p. 501 pl. lxiii figs. 17–18, *pacificus* p. 502 pl. xxxix fig. 9, pl. lxiii figs. 15, 19, 21, 23, MORTENSEN 191.

†*Platyspatus* see *Spatangus*.

†*Plegiocidaris chantrei*, MACCAGNO 168 p. 80 pl. i fig. 2. [Radiole].

†*Plesiaster* with *P. peini*, MORTENSEN 191 p. 368.

†*Plesiopatagus* with *P. cotteau*, MORTENSEN 191 p. 477.

*Plethoraenia* p. 484 with *P. spatangoides* p. 485 figs. 253–254, pls. xxxix figs. 6, 10–11, pl. lxiv fig. 24, MORTENSEN 191.

†*Pliolampas lorioli* var. *excentrica* var. n. Eocene Senegal, GORODISKI Bull. Mus. Hist. nat. Paris (2) 23 pp. 325–327 pl. i figs. 2–4.

†*Plyophima* see *Clypeaster*.

*Podophora* see *Colobocentrotus*.

†*Polydesmaster* with *P. fourtaui*, MORTENSEN 191 p. 201.

†*Porosoma lamberti* sp. n. Eocene W. Africa, CHECCHIA-RISPOLI Boll. Uff. geol. Ital. 70 1950 pp. 22–24 pl. i fig. 1.—*P. crirubrum*, PINAR 232 p. 36.

†*Prenaster clarkei* pp. 252–253 pl. xlvi figs. 7–8, *elongatus* p. 250 pl. i figs. 3–4, *nuevitasensis* p. 252 pl. xlvi figs. 1–2, *parvus* Palmer [ms.] pp. 251–252 pl. xlvi fig. 12, *sanchezi* Lambert [ms.] p. 251 pl. xlvi figs. 4–6, spp. n. Eocene Cuba, ROIG Paleont. Cubana 1 1949.—*P. with P. alpinus*, MORTENSEN 191 p. 229.

†*Procassidulus avilensis* Palmer [ms.] Oligocene pp. 134–135 pl. iv figs. 6–8, *brodermanni* Eocene p. 135 pl. xvii figs. 6–7, *circularis* Palmer [ms.] Oligocene pp. 139–140 pl. xvii figs. 4–5, *habanensis* p. 138 pl. iv fig. 5, *jeanneti* Miocene p.

137 pl. xvii figs. 2–3, *luacesi* Cretaceous pp. 135–136 pl. xviii figs. 1–3, *minutus* Cretaceous p. 133 pl. xvii figs. 8–11, *simpatiae* Cretaceous pp. 138–139 pl. xvii figs. 12–13, spp. n. ROIG Paleont. Cubana 1 1949; *cubensis* p. 132, *P.* sp. p. 149, Id.—*P. lambayensis*, GORODISKI 106 p. 323 pl. i fig. 7.

†*Procassidulus* (*Australanthus*) *madrugensis* sp. n. Cretaceous Cuba, ROIG Paleont. Cubana 1 1949 pp. 140–141 pl. xviii figs. 4–6.

†*Progonolampas* see *Echinolampas*.

†*Proraster* with *P. atavus*, *geayi*, MORTENSEN 191 p. 229.

†*Prosostoma jimenoi*, ROIG 248 p. 191 pl. xxviii fig. 1.

*Prospatangus* Lambert 1902, decision to place on "Official index of rejected and invalid generic names in Zoology", 1 p. 528.

*Protenaster* p. 223 with *P. australis* p. 224 figs. 108–109, pl. liii fig. 2, *rostratus* p. 226, MORTENSEN 191.

†*Protobrissus* with *P. mortenseni*, MORTENSEN 191 p. 369.

*Prymnaster* p. 226 with *P. angulatus* p. 227, *investigatoris* p. 228, MORTENSEN 191.

*Pseudabatus* see *Abatus*.

*Pseudechinus* (*Notechinus*) *sanctipauli* sp. n. Southern Ocean, DOLLFUS Mém. Mus. Hist. nat. Paris N.S. 22 1946 pp. 160–178 figs. 1–16 pls. iii–iv.

†*Pseudobrissus* with *P. corsicus*, MORTENSEN 191 p. 352.

*Pseudocidaris checchiai* sp. n. Jurassic N. Africa, MACCAGNO Boll. Uff. geol. Ital. 70 1950 pp. 92–95 pl. i fig. 6, pl. ii fig. 13.

*Pseudolovenia* with *P. hirsuta*, MORTENSEN 191 p. 127.

*Pseudomaretia* p. 55 with *P. alta* p. 58 figs. 25–27a, 28, 30, pl. iii figs. 12–14, 16–20, pl. xlvi figs. 1–6, 9–11, 13, 19–20, 30, *interrupta* p. 71 figs. 34–35, pl. ii figs. 7–9, pl. xliv figs. 11–13, 17, 19, 22–23, *laevis* p. 67 figs. 32, 33a, pl. xlvi figs. 18, 21, *oblonga* p. 70 fig. 33b, pl. iii figs. 4–5, 10–11, pl. xliv fig. 24, *tylota* p. 62 figs. 27b, 29, 31, pl. iii figs. 1–3, 6–9, pl. xlvi figs. 7–8, 12, 14–17, 22–28, MORTENSEN 191.

†*Pseudorthopsis* gen. n. Lambert [ms.] for type *Echinopedia cubensis* Cotteau 1881 Eocene and Cretaceous Cuba, ROIG Paleont. Cubana 1 1949 p. 37.

†*Pseudorthopsis* [sic in text, *Pseudorthopsis* in explanation of plate] *pentagona* sp. n. Cretaceous Cuba, ROIG Paleont. Cubana 1 1949 pp. 40–41 pl. iv figs. 1–2.

†*Pseudosalenia pseudocidaroides* p. 85 pl. i fig. 4, pl. ii figs. 10–11, cf. *quadrangularis* p. 88 pl. ii fig. 14, MACCAGNO 168.

*Psychocidaris ohshimae*, MORTENSEN 191 p. 555.

†*Pygaster truncatus*, ZÁZVORKA 340 p. 1 fig., pl. i figs. 1–8.

†*Pygorhynchus* see *Cassidulus*.

†*Pyrina avilensis* sp. n. Cretaceous Cuba, ROIG Paleont. Cubana 1 1949 p. 60 pl. xlvi figs. 9–10; *antillensis*, Id. p. 59.

†*Radioibrissus* with *R. genevensis*, MORTENSEN 191 p. 547.

†*Recrosalenia migiurtina* sp. n. Jurasic N. Africa, MACCAGNO Boll. Uff. geol. Ital. 70 1950 pp. 90–92 pl. i fig. 5.

*Rhabdobrissus* see *Plagiobrissus*.

†*Rhabdocidaris durandi* p. 82 pl. i fig. 3, aff. *mogharensis* p. 81 pl. i fig. 1, pl. ii figs. 1–9, MACCAGNO 168 [Radioles].

*Rhinobrissus* p. 486 with *R. hemiasteroides* p. 490 figs. 256–257, pl. xxviii figs. 3–4, 7–9, 13–14, pl. lxi figs. 10–11, 17–18, *macropetalus* p. 491, *placopetalus* p. 489, *pyramidalis* p. 488 fig. 255, pl. lxi figs. 9, 16, MORTENSEN 191.

†*Rhyncholampas cervantesi* sp. n. Oligocene Cuba, ROIG Paleont. Cubana 1 1949 p. 145 pl. xxxvi figs. 5–6; aff. *alabamensis* p. 145, *rodriguezi* p. 144, Id.

†*Rhynchopygus* see *Cassidulus*.

†*Rojasia* gen. n. p. 57 for type *R. rojasi* sp. n. p. 58 pl. xxxv, pl. xxxvi fig. 1 Eocene Cuba, ROIG Mem. Soc. cubana Hist. nat. 20.

*Rotundaster*, MORTENSEN 191 p. 216.

†*Rovasendia* with *R. canavarii*, MORTENSEN 191 p. 550.

†*Rumphia elegans* sp. n. Oligocene Cuba, ROIG Paleont. Cubana 1 1949 pp. 100–101 pl. xvi fig. 1.

†*Salenia alcaldei* sp. n. Cretaceous Cuba, Roig Paleont. Cubana 1 1949 p. 44 pl. ii figs. 14-17; *ameri*, Id. p. 43.

†*Salenidia bonissenti*, KONGIEL 145 pp. 311, 321 pl. i figs. 1-4.

†*Sanchezaster habanensis*, Roig 248 p. 174 pl. xx fig. 1.

†*Sanfilippaster*, MORTENSEN 191 p. 228.

†*Saviniaster* with *S. miqueli*, MORTENSEN 191 p. 351.

†*Scaphechinus* see *Echinorachnius*.

*Schizaster* Agassiz 1836, decision to place on "Official list of generic names in Zoology" with type *S. studeri* Agassiz 1840, [S.] *studeri* Agassiz 1840 placed on "Official list of specific trivial names in Zoology," 1 p. 528.—*S.* p. 295 with *S. edwardsi* p. 304 figs. 140, 141c pl. xxi figs. 1-4, 11-13, pl. liv figs. 4, 6, 10-11, 13, 18, *lacunosus* p. 300 figs. 140a-b, 141a-b, pl. xxi figs. 5-10, 14-18, pl. liv figs. 1-3, 5, 7-9, 12, 14-17, *orbignyanus* p. 306 fig. 140d, pl. xxiii figs. 4-6, 10, MORTENSEN 191.—*S. rimosus*, PINAR 232 p. 50.

†*Schizaster delorenzoi* sp. n. Eocene N. Africa, CHECCHIA-RISPOLI Boll. Uff. geol. Ital. 70 1950 pp. 35-36 pl. ii fig. 5.—*S. alcaldei* Eocene p. 273 pl. xxxii fig. 4, *caobaense* Eocene pp. 273-274 pl. xliv fig. 2, *cojimarensis* Oligocene p. 270 pl. xliv figs. 1, 3, *habanensis* Oligocene pp. 270-271 pl. xlv figs. 1-2, *sanctamariae* Cretaceous p. 272 pl. xliv figs. 4-5, *vedadoensis* Oligocene pp. 271-272 pl. xlvi fig. 8, spp. n. Cuba, Roig Paleont. Cubana 1 1949.—*S. moronensis* sp. n. Oligocene Cuba, Roig Mem. Soc. cubana Hist. nat. 20 pp. 58-59 pl. xxxvi figs. 4-5; *alcaldei*, Id. p. 64 pl. xxxix figs. 10-11.—*S.* discussion of spp., MORTENSEN 191 p. 296.—*S. armiger*, RICHARDS 243 p. 15 fig. 63e.

†*Schizaster* (section *Aplospatangus*) *guirensis* Miocene pp. 278-279 pl. xlvi figs. 4-5, *llagunozi* Lambert & Roig Miocene pp. 274-275, *muñozi* Oligocene p. 277 pl. xlvi figs. 1-3, *salutis* Miocene p. 278 pl. xlvi figs. 3-4, spp. n. Cuba, Roig Paleont. Cubana 1 1949: *egozcuei*, Id. p. 275.

†*Schizaster* (section *Brissaster*) *santanae* sp. n. Oligocene Cuba, Roig Paleont. Cubana 1 1949 pp. 281-282 pl. xlvi figs. 5-7; *cubensis* p. 280, aff. *dyscritus* p. 279, *subcylindricus* p. 281, Id.

*Schizaster (Ova)* p. 308 with *S. (O.) canaliferus* p. 309 fig. 142a, MORTENSEN 191.

†*Schizobrissus jacksoni* sp. n. Lambert and Roig Pleistocene Cuba, Roig Paleont. Cubana 1 1949 pp. 230-231 pl. xxxvii figs. 1-2; *antillarum* p. 229, *clevei* p. 231, Id.—*S.* with *S. cruciatus*, MORTENSEN 191 p. 454.

†*Schizopneustes* with *S. aturicus*, MORTENSEN 191 p. 232.

[*Scutella*] *parma* Lamarck 1816, placed on "Official list of specific trivial names in Zoology," 1 p. 535.

†*Scutella habanensis* sp. n. Oligo-Miocene Cuba, Roig Paleont. Cubana 1 1949 pp. 113-114 pl. xxxiii fig. 2; *camagueyana* p. 115, *cubae* p. 114, Id.

†*Sismondia* aff. *crustula* p. 65, *S. occitana* p. 66, Roig 248.

*Spatagobrissus* with *S. mirabilis*, MORTENSEN 191, p. 492 figs. 258-260, pl. xxviii figs. 10-12, pl. lx fig. 8, pl. lxiii fig. 20.

*Spatagoidea* Gmelin 1789 in Linnaeus, request to place on "Official index of rejected and invalid general names in Zoology," ENGEL 83.

*Spatagooides* Klein 1778, *Spatagooides* Leske 1778, request to place on "Official index of rejected and invalid generic names in Zoology," ENGEL 83.

*Spatangus* Gray 1825, decision to place on "Official list of generic names in Zoology" with type *Spatagus purpureus* Müller 1776, [S.] *purpureus* Müller 1776 placed on "Official list of specific trivial names in Zoology," 1 p. 528.—[S.] *atropos* Lamarck 1816, [S.] *brissus* var. *unicolor* Leske 1778, [S.] *canaliferus* Lamarck 1816, placed on "Official list of specific trivial names in Zoology," 1 pp. 528-529.—[S.] *striatoradiatus* Leske 1778, request to place on "Official list of specific trivial names in Zoology," ENGEL 83.—*S.* p. 6 with *S. altus* p. 17, *californicus* p. 16 pl. ii figs. 1-2, *capensis* p. 16 pl. i figs. 1-3, *lütkeni* p. 18, *multispinus* p. 15 pl. ii figs. 4-6, pl. iii fig. 15, *pallidus* p. 19, *purpureus* p. 10, *raschi* p. 14, MORTENSEN 191.—*S. purpureus*, MORTENSEN 192 p. 299.

†*Spatangus*, discussion of spp., MORTENSEN 191 p. 7.

*Spatangus (Granopatagus) inermis* p. 19, *paucituberculatus* p. 19 pl. ii fig. 3, pl. iii figs. 21–22, MORTENSEN 191.

†*Spatangus (Phymapatagus)* with *S. (P.) brittanus*, MORTENSEN 191 p. 8.

†*Spatangus (Platyspatus)* with *S. (P.) chitonosus*, MORTENSEN 191 p. 8.

*Sterechinus antarcticus*, CLARK 49 p. 335.

*Strongylocentrotus* Brandt 1835, decision to place on "Official list of generic names in Zoology" with type *Echinus droebachiensis* Müller 1776, 1 p. 521.—*S. droebachiensis*, DJAKONOV 77 p. 148 figs. 1–3.—*S. pulcherrimus*, MOTOMURA 195 p. 431.

*Stylocidaris affinis*, MULLEGER 203 p. 18 fig. 5.

†*Tarphyppygus palmeri* sp. n. Eocene p. 170, *sulcatus* sp. n. Oligocene pp. 170–171 pl. 1 fig. 5, Cuba, ROIG Paleont. Cuban 1 1949; *clarki* p. 168, *ellipticus* p. 171, *notabilis* p. 169, Id.—*T. palmeri*, ROIG 249 p. 64 pl. xxxix figs. 6–7.

*Temnopleura toreumaticus*, GRAVELY 107 p. 88 fig. 30, 2.

†*Tetragamma giganteum* p. 11 pl. i figs. 14–16, *somaliense* p. 12 pl. i figs. 17–19, CHECCHIA-RISPOLI 36.

†*Tholeopelta herrerae* sp. n. Oligocene Cuba, ROIG Mem. Soc. cubana Hist. nat. 20 pp. 40–41.

†*Tholeopelta* see *Clypeaster*.

†*Togocytamus seefriedi*, FURON & KOURIATCHY 92 p. 97 pl. viii fig. 1.

†*Trachyaster minutus* pp. 241–242 pl. xlvi figs. 6–8, *simpaticus* pp. 242–243 pl. xlvi figs. 3–5, spp. n. Cretaceous Cuba, ROIG Paleont. Cuban 1 1949; *antillensis*, Id. p. 243.

†*Trachyaster (Opissaster) herrerae*, ROIG 248 p. 244.

†*Trachypatagus* with *T. oranensis*, MORTENSEN 191 p. 478.

†*Triplacidia trakyensis* sp. n. Eocene Turkey, PINAR Bull. Soc. géol. Fr. 6 1 pp. 37–38 figs. 1–2, 4, 7, 9, pl. ib figs. 2–3.

†*Tripteneutes ventricosus austriacus* subsp. n. Miocene Austria, TAUBER SitzBer. öst. Akad. Wiss. Abt. I 160 pp. 312–313 figs. 1–4.

*Triptylaster* p. 271 with *T. philippii* p. 272 pl. xix figs. 9, 13–14, MORTENSEN 191.

*Tripylus* p. 273 with *T. excavatus* p. 276 fig. 134a, pl. xix fig. 6, MORTENSEN 191.

*Tripylus (Parapneustes) abatoides* p. 279, *cordatus* p. 277 fig. 133, pl. xix figs. 7–8, *reductus* p. 278, MORTENSEN 191.

†*Vasconaster*, MORTENSEN 191 p. 89.

†*Verbeekia* with *V. dubia*, MORTENSEN 191 p. 148.

†*Victoriaster*, MORTENSEN 191 p. 169.—*V. lamberti*, ROIG 248 p. 249 pl. xxxix fig. 1, pl. xl fig. 1.

†*Washitaster* with *W. riovistae*, MORTENSEN 191 p. 202.

†*Zanolettia* [vel *Zanoletia*] gen. n. p. 39 for type *Z. zanoletti* sp. n. Oligocene Cuba, ROIG Mem. Soc. cubana Hist. nat. 20 p. 40 pl. xxiii figs. 2–3.

#### SOMASTEROIDEA

[Somasteroidea subclass n. SPENCER Phil. Trans. 235B p. 91 is erected to include starfish which cannot be accommodated in either the Asteroidea or Ophiuroidea].

†*Archegonaster pentagonus* sp. n. ex Jaekel ms. Ordovician Bohemia, SPENCER Phil. Trans. 235B pp. 101–106 figs. 9–10, 12–15, pl. 2 fig. 34, pl. 3 figs. 37–38, pl. 4 figs. 39–40, pl. 8 figs. 54–55.

†*Chiniaster* with *C. levyi*, SPENCER 292 p. 98 figs. 7–8, pl. 2 figs. 32–33, pl. 3 figs. 35–36.

†*Villebrunaster* gen. n. for type *V. thorali* nom. n. for *Chinianaster levyi* Thoval 1935 pars, Cambro-Ordovician France, SPENCER Phil. Trans. London 235B pp. 93–98 figs. 1, 3–4, pl. 2 figs. 29–31.

#### ASTEROIDEA

†Ocular plate, MALARODA 170 p. 156 pl. ii figs. 2.

*Acodontaster elongatus*, CLARK 49 p. 336.

*Adelasterias papillosa*, CLARK 49 p. 337.

*Aphelasterias* p. 119 with *A. japonica* p. 120 fig. 209, DJAKONOV 78.

*Archaster typicus*, CLEMENTE & ANICETE 53 p. 297 figs. 1–6.

*Asterias argonauia* sp. n. p. 188 figs. 5(3), 6(3), *A. asterias* with *acervispinis* forma n. p. 189 figs. 5(8), 6(8), *flabellifera* forma n. p. 188 figs. 5(6), 6(6), *gracilispinus* forma n. p. 189 figs. 5(8), 6(8), *latissima* forma n. p. 189 figs. 5(7), 6(7), *robusta* forma n. p. 189 figs. 5(10), 6(10), DJAKONOV Trav. Inst. zool. Acad. Sci. U.R.S.S. 8 1946; *A. amurensis* figs. 5(4, 5), 6(4, 5), *rollestoni* figs. 5(1), 6(1), *versicolor* figs. 5(2), 6(2), Id. p. 184.—*A. amurensis* with forma *acervispinis* f. n. p. 126 figs. 128, 137, *flabellifera* f. n. p. 126 figs. 125, 135, 211, *gracilispinus* f. n. p. 126 figs. 127, 139, *latissima* f. n. p. 126 figs. 126, 136, *robusta* f. n. p. 126 figs. 129, 138; *A. argonauia* sp. n. p. 124 figs. 122, 132; *microdiscus* sp. n. p. 127 figs. 182, 201 with *brandti* f. n. p. 127; *A. Rathbuni* with forma *alveolata* f. n. p. 128 fig. 141, and subsp. *crassispinis* subsp. n. p. 128 fig. 143, U.R.S.S., DJAKONOV Tabl. anal. Faune U.R.S.S. 34 1950; *A. amurensis* p. 125 with forma *amurensis* p. 126 figs. 123–124, 133–134, *A. Rathbuni* p. 127 with forma *anomala* p. 128 fig. 142, f. *nortonensis* p. 128, and f. *rathbuni* p. 128 figs. 140, 183, *A. rollestoni* p. 123 figs. 120, 130, *rubens* p. 125, *versicolor* p. 124 figs. 121, 131, Id.—[*A.*] *ciliaris* Philippi 1837, decision to place on "Official list of specific trivial names in Zoology," 1 p. 513.—*A. glacialis*, MÜLLEGEER 203 p. 17 fig. 3.—*A. rubens*, SMIDT 285.

†*Asterias quinqueloba*, application to Internat. Comm. Zool. Nomen., HEMMING 121 p. 673.—[*A.*] *quinqueloba* Golfduss 1831, request to place on "Official list of specific trivial names in Zoology," WRIGHT 332.

*Asterina gibbosa*, BACCI 9.—*A. gibbosa*, BOUGIS 26.—*A. gibbosa* p. 212, *stellifer* p. 213, MADSEN 169.—*A. cepheus*, TORTONESE 314 p. 36.

*Asterodiscus truncatus*, POPE 233 p. 146 fig.

*Astrocles* p. 103 with *A. actinodetus* p. 103 fig. 103, DJAKONOV 78.

*Astropeten granulatus natalensis* subsp. n. S. Africa p. 489 pl. i figs. 1–2, *triseriatatus fijiensis* subsp. n. Fiji Islands pp. 501–502 pl. ii fig. 4, JOHN Novit. zool. London 42 1948; *A. antillensis* p. 502, *brasiliensis armatus* p. 503 pl. iii figs. 1–2, *brasiliensis erinaceus* p. 504 pl. iv figs. 1–2, *brevispinus* p. 496 pl. i figs. 3–4, *granulatus* p. 486, *hartmeyeri*

p. 492, *indicus* p. 489, *mauritianus* p. 505 pl. iv figs. 3–4, *mesactus* p. 496 pl. i figs. 5–6, *michaelseni* p. 502, *monacanthus* p. 491, *pectinatus* p. 497 pl. ii fig. 5, *sphenoplax* p. 499 pl. ii figs. 1–3, *triseriatatus* p. 500, *zebra* p. 492, Id.—*A. jarli* sp. n. pp. 181–186 fig. 3, pl. xv fig. 1, *michaelseni* var. *ambiguus* var. n. pp. 174–176 figs. 1c–d, pl. xiv fig. 2, *spiniphorus* sp. n. pp. 176–180 fig. 2, pl. xiv fig. 1, West Africa, MADSEN Atlantide Reports 1 1950; *aranciacus* with f. *gruveli* p. 180, *bispinosus* p. 181, *guineensis* p. 181, *hupferi* p. 181, *irregularis* var. *africanus* p. 171, *irregularis* var. ? p. 170, *irregularis* f. *pentacanthus* p. 169, *A. leptus* p. 169, *liberiensis* p. 173, *mamilatus* p. 181, *michaelseni* p. 173 fig. 1a–b, pl. xiv fig. 3, *weberi* p. 173, Id.—*A. bispinosus platyacanthus*, da COSTA 62 p. 1.—*A.* with *A. irregularis*, DJAKONOV 78 p. 28.—*A. mauritanus*, GRAVELY 107 p. 86 fig. 30, 1.

†*Astropeten carthusiae* sp. n. Cretaceous France, HÉRENGER Trav. Lab. Géol. Univ. Grenoble 24 1944 pp. 38–45 figs. 4, 5, 6 (2), 7–8, 9(3), pl. i figs. 1–4. [See Zool. Record for 1948 Part V 43 where also this sp. is described as sp. n.].—*A. sp.*, MALARODA 170 p. 155 pl. i figs. 18, 21–24, pl. ii figs. 1, 4.

*Astrostole multisepia* sp. n. Malaysia, CLARK, Ann. Mag. nat. Hist. (12) 3 1950 pp. 808–811 fig. 1, pls. xi–xii.

†*Baliactis* ? *flemingtonensis*, SPENCER 291 p. 407.

*Bathybiaster* with *B. vexillifer*, DJAKONOV 78 p. 32 fig. 15.

†*Belaster*, SPENCER 291 p. 405.

*Benthopecten rhopalophorus* sp. n. Okhotsk Sea, DJAKONOV Tabl. anal. Faune U.R.S.S. 34 1950 pp. 41–42 fig. 91.

*Brisingella ochetensis* sp. n. Okhotsk Sea, DJAKONOV Tabl. anal. Faune U.R.S.S. 34 1950 p. 103 fig. 90.

†*Caractacaster*, SPENCER 291 p. 406.

*Ceramaster patagonicus productus* subsp. n. p. 48 fig. 186, *C. stellatus* sp. n. pp. 49–50 fig. 89 Behring Sea, DJAKONOV Tabl. anal. Faune U.R.S.S. 34 1950; *arcticus* p. 50 figs. 21, 26, *granularis* p. 47 fig. 11c, *japonicus* p. 49 fig. 30, *patagonicus* p. 48 figs. 27, 88, Id.

†*Ceramaster brandenensis* sp. n. Oligocene Denmark, RASMUSSEN Medd. dansk geol. Foren. 11 1950 pp. 588-589 fig. 1.

*Chaetaster moorei* p. 1256 figs. 1-2, *nodosus* p. 1260, CLARK 52.—*C. longipes*, MADSEN 169 p. 219.

†*Coccasther*, SPENCER 291 p. 406.

*Coscinasterias tenuispina*, MADSEN 169 p. 219.—*C. acutispina*, YAMAZI 337 p. 176 figs. 1-4.

*Craspidaster hesperus* with subsp. *glauconotus*, JOHN 140 p. 57.

†*Crateraster* Spencer 1913, request to place on "Official list of generic names in Zoology," WRIGHT 332.—*C. quinqueloba*, see sub *Asterias*.

*Crossaster borealis ochotensis* subsp. n. Okhotsk Sea, DJAKONOV Tabl. anal. Faune U.R.S.S. 34 1950 p. 72; *C. p. 71* with *C. borealis* p. 72 fig. 22, *diamesus* p. 72 figs. 107-108, *japonicus* p. 74 fig. 25, *papposus* p. 73 figs. 18, 196, *squamatus* p. 73 fig. 19, Id.

*Ctenodiscus* p. 19 with *C. crispatus* p. 20 figs. 5, 12B, 187, 188, DJAKONOV 78.

*Cuenotaster involutus*, CLARK 49 p. 337.

*Diplopteraster* with *D. multipes*, DJAKONOV 78 p. 77.

*Dipsacaster* with *D. anoplus*, DJAKONOV 78 p. 27.

*Distolasterias* p. 115 with *D. elegans* p. 116 figs. 112-114, *nipon* p. 116 figs. 118-119, DJAKONOV 78.

*Dytaster exilis* p. 54 with var. *carinata* p. 54 pl. vi figs. 1-2, *D. grandis* p. 54 pl. vi fig. 3, JOHN 140.

*Echinaster sepositus*, MADSEN 169 p. 219.

*Echinaster* (*Othilie*) *purpureus*, TORNONESE 314 p. 36.

*Endogénasterias* see *Leptasterias*.

*Enoplatiria marginata*, OLIVEIRA 219 p. 370 fig. 15.

†*Eoactis*? *stachi*, wenlocki, SPENCER 291 p. 407.

*Eoleptasterias* see *Leptasterias*.

*Eremicaster* p. 20 with *E. tenebrarius* p. 21 fig. 31, DJAKONOV 78.

*Easterias retifera* with forma *retata* f. n. p. 132, and *retifera* f. n. p. 132 fig.

204, DJAKONOV Tabl. anal. Faune U.R.S.S. 34 1950; *E. p. 129, derjugini* p. 131 figs. 155, 165, *echinosoma* p. 131, *retifera* p. 132 fig. 204 with forma *tabulata* p. 133 fig. 208, *E. troscheli* p. 130 with forma *acanthostoma* p. 131, f. *alveolata* p. 130, and f. *troscheli* p. 130 fig. 205, Id.

*Gephyreaster* p. 43 with *G. swifti* p. 43 fig. 189, DJAKONOV 78.

†*Girvanaster*, SPENCE 291 p. 405.

*Goniaster cuspidatus*, MADSEN 169 p. 209.

†[*Goniaster* (*Gonioidiscus*)] *parkinsoni* Forbes 1848, request to place on "Official list of specific trivial names in Zoology," WRIGHT 332.

†*Helianthaster rhenanus*, LEHMANN 156 p. 269 pl. xii fig. 5, 157 pp. 404, 408 pl. xix fig. 3, pl. xxiv fig. 4.

*Henricia beringiana* sp. n. Bering Sea p. 100 figs. 58-59, *derjugini* sp. n. Bering Sea pp. 100-101 figs. 60-61, 67-68, *elegans* sp. n. Okhotsk Sea p. 97, *knipowitschi* sp. n. W. Arctic Ocean p. 93 figs. 46-48, *ochotensis* sp. n. Okhotsk Sea p. 97 figs. 63-64, 69-70, *orientalis* sp. n. Bering & Okhotsk Seas p. 98 figs. 71-72, *skorikovi* sp. n. White Sea & Barents Sea pp. 93-94 figs. 51-54, 194, *solida* sp. n. White Sea & Barents Sea pp. 94-95 fig. 50, DJAKONOV Tabl. anal. Faune U.R.S.S. 34 1950; *arctica* p. 99 figs. 73-74, *aspera* p. 99 fig. 193, *curta* p. 91, *dyscrita* p. 96 figs. 81-82, *eschrichtii* p. 90 figs. 40-41, 43 with forma *laevior* p. 90 figs. 42, 49, *H. leviuscula* p. 95 figs. 28, 79-80, 83-84, *longispina* p. 99, *sanguinolenta* p. 89 figs. 38-39, *scabrior* p. 92 figs. 44-45, *spiculifera* p. 95 figs. 55-56, 65-66, *tumida* p. 98 with forma *borealis* p. 98 figs. 62, 75-78, 85-86, Id.

*Hexasterias* see *Leptasterias*.

*Hippasteria colossa* sp. n. Bering Sea p. 55, *derjugini* sp. n. Okhotsk Sea pp. 55-56, *leiopelta* with forma *aculeata* f. n. and *longimana* f. n. p. 56, *H. mammifera* sp. n. Okhotsk Sea p. 54, *pedicellaris* sp. n. Okhotsk Sea pp. 54-55, DJAKONOV Tabl. anal. Faune U.R.S.S. 34 1950; *kurilensis* p. 56, *leiopelta* p. 56, *phrygiana* p. 53 fig. 11d, *spinosa* p. 53 with forma *armata* p. 53 fig. 192, Id.

†*Hudsonaster*, SPENCER 291 p. 405.

*Hymenaster* p. 82 with *H. glaucus* p. 84, *pellucidus* p. 83 fig. 14, *perissonotus* p. 83, DJAKONOV 78.

*Icasterias* p. 114 with *I. panopla* p. 114 fig. 116, DJAKONOV 78.

*Korethraster* with *K. hispidus*, DJAKONOV 78 p. 75.

*Labidiaster annulatus*, CLARK 49 p. 337.

†*Lepidaster* ? *australis*, SPENCER 291 p. 406.

*Leptasterias* spp., DJAKONOV 77 p. 174.—*L. ochotensis similispinis*, KUBO 152 p. 97 figs. 1-9.

*Leptasterias (Endogenasterias) groenlandica* p. 146 fig. 10 with forma *cibaria* p. 146 fig. 167, forma *groenlandica* p. 146 figs. 166, 168-169, *L. sibirica* p. 147 fig. 9, DJAKONOV 78.

*Leptasterias (Eoleptasterias) derbeki* p. 144 fig. 162, *granulata* p. 145 fig. 163, *ochotensis* p. 143 figs. 110, 160, 203, *similispinis* p. 143 fig. 161, *squamulata* p. 145 fig. 164, *vinogradovi* p. 144, DJAKONOV 78.

*Leptasterias (Hexasterias) alaskensis asiatica* p. 151 figs. 179-181, 212, *L. camtschatica* p. 151, *L. coei shantarica* p. 149 figs. 175-176, *L. hexactis occidentalis* p. 150 fig. 178, *L. leptodoma* p. 150, *L. polaris acervata* p. 147 with forma *acervata* p. 148, forma *intermedia* p. 148 fig. 170 and forma *polythela* p. 148 fig. 200, *L. polaris ushakovi* p. 148 figs. 171, 174, *L. polymorpha* p. 149 figs. 172-173, *L. schmidti* p. 148 fig. 177, DJAKONOV 78.

*Leptasterias (Leptasterias) arctica* p. 139 figs. 12c, 109, 111, Pl7, 144-146 with forma *beringensis* p. 140, f. *glomerata* p. 140 fig. 147, and subsp. *islandica* p. 140, *L. fisheri* p. 142 fig. 154, with subsp. *fisheri* fig. 156 and subsp. *meridionalis* figs. 157-158, *L. hirsuta* p. 140 figs. 148-150, *hyloides* subsp. *reticulata* p. 140 fig. 202, *hyperborea* p. 139, *insolens* p. 142 fig. 159, *mülleri* p. 138, *orientalis* p. 141 figs. 151, 210 with subsp. *japonica* p. 141 fig. 152, *L. subarctica* p. 141 fig. 153, DJAKONOV 78.

*Leptychaster magnificus*, CLARK 49 p. 336.—*L.* p. 22 with *L. anomalus* p. 24 fig. 197, *arcticus* p. 23 fig. 12c with forma *microplax* p. 24, *L. inermis* p. 25, *propinquus* p. 25, DJAKONOV 78.—*L. antarcticus* p. 56 pl. vi fig. 4, *kerguelensis* p. 56, JOHN 140.

*Lethasterias* p. 117 with *L. fusca* p. 118 figs. 105-106, *nanimensis* with subsp. *beringiana*, *chelifera* p. 117, DJAKONOV 78.

*Linckia bouvieri*, MADSEN 169 p. 214 pl. xv fig. 2.

*Lonchotaster tartarus*, JOHN 140 p. 53.

*Lophaster* p. 63 with *L. furcifer* p. 64 fig. 199, *furcilliger* p. 64 figs. 32-35 with forma *vexator* p. 65 figs. 36-37, DJAKONOV 78.

†*Lophidiaster ornatus*, CASEY 31 p. 463.

†*Loriolaster mirabilis*, LEHMANN 156 p. 269 pl. xiii fig. 3, 157 pp. 403, 413 pl. xx fig. 3, pl. xxii figs. 1a-b.

*Luidia atlantidea* sp. n. West Africa, MADSEN Atlantide Reports 1 1950 pp. 192-198 fig. 5, pl. xvi figs. 1-2; *africana* p. 188 fig. 4, pl. xvi figs. 3-4, *alternata* var. *nunidica* p. 206 fig. 9, *L. ciliaris* p. 205 fig. 8, *heterozona* p. 203, *sagamina* var. *aciculata* p. 199 figs. 6-7, *L. sarsi* p. 187, ID.—*L.* p. 33, *L. quinaria* p. 33 with subsp. *bispinosa* p. 34, DJAKONOV 78.—*L. senegalensis*, OLIVEIRA 219 p. 370 fig. 13.

*Luidiaster dawsoni ochotensis* subsp. n. Okhotsk Sea, DJAKONOV Tabl. anal. Faune U.R.S.S. 34 1950 p. 38; *L. dawsoni* p. 37 fig. 29, *tuberculatus* p. 38 figs. 16-17, 195, ID.

*Lysasterias perrieri, joffrei*, CLARK 49 p. 337.

*Lysastroso* p. 112 with *L. anthosticta* p. 112 with subsp. *crassispinosa* p. 112 fig. 104, DJAKONOV 78.

†*Macroporaster* p. 405, *M. nylanderi* p. 406, SPENCER 291.

*Marthasterias* with *M. glacialis*, DJAKONOV 78 p. 119.—*M. glacialis*, MADSEN 169 p. 220.

†*Mesopalaeaster* with *M. complicatus*, *primus*, *shafferi*, SPENCER 291 p. 407.

†*Metopaster* Sladen 1893, request to place on "Official list of generic names in Zoology," WRIGHT 332.—*M. parkinsoni*, see sub *Goniaster*.

*Monachaster umbonatus*, TORTONESE 314 p. 31 figs. A-C.

*Myxoderma derjugini* sp. n. Okhotsk Sea, DJAKONOV Tabl. anal. Fauna U.R.S.S. 34 1950 pp. 104-105 figs. 87, 207.

- Narcissia canariensis*, MADSEN 169 p. 216 fig. 11.
- Nardoa variolata*, TORTONESE 314 p. 35.
- Nearchaster pedicellaris vagans* subsp. n. p. 39, *N. variabilis geminus* subsp. n. p. 40, Okhotsk Sea, DJAKONOV Tabl. anal. Faune U.R.S.S. 34 1950.
- †*Nymphaster miocenicus*, ROIG 248 p. 294.
- Odontaster meridionalis*, *validus*, CLARK 49 p. 336.
- Ophidiaster ophidianus*, MADSEN 169 p. 218.
- †*Ordoviciaster*, SPENCER 291 p. 405.
- Oreaster clavatus*, MADSEN 169 p. 212.
- †[*Oreaster*] *boysi* Forbes 1848, *ocellatus* Forbes 1848, request to place on "Official list of specific trivial names in Zoology," WRIGHT 332.
- Othilie* see *Echinaster*.
- †*Palasterina maucherii* sp. n. Devonian Germany, LEHMANN N. Jb. Geol. Paläont. 93 p. 408 pl. xxiii fig. 4.
- †*Palastropecten*, SPENCER 291 p. 406.
- Patiria pectinifera*, DJAKONOV 78 p. 62.
- Pedicellaster eximius* Djakonov 1948 sp. n. [sic] Okhotsk Sea p. 109 figs. 96, 102, *indistinctus* sp. n. Okhotsk Sea p. 107 figs. 97, 101, *magister ochotensis* subsp. n. Okhotsk & Bering Seas pp. 107-108 figs. 94, 99, DJAKONOV Tabl. anal. Faune 34 1950; *orientalis* p. 108 figs. 57, 98, 100, *typicus* p. 106 figs. 8, 95, Id.
- Pentaceraster mammillatus*, TORTONESE 314 p. 35.
- Peribolaster* with *P. biserialis*, DJAKONOV 78 p. 76.
- Perknaster aurantiacus*, CLARK 49 p. 337.
- †*Petraster* with *P. angustior* p. 407, *kinahani*, *ramseyensis* p. 405, SPENCER 291.
- †*Phillipsaster* gen. n. for type *Salteraster*? *coronella* Spencer 1918 Silurian England, SPENCER Geol. Mag. 87 1950 p. 406; *ruthveni* mut. *arisargensis*, *P. selwyni*, Id. p. 406.
- Plutonaster agassizii*, *rigidus*, JOHN 140 p. 55.
- Pontaster* p. 35 with *P. tenuispinus* p. 36 figs. 11A, 12A, 190, DJAKONOV 78.
- Poraniomorpha tumida*, DJAKONOV 77 p. 163.—*P. bidens* p. 60, *hispida* p. 59, *tumida* p. 58, DJAKONOV 78.
- Poraniopsis* p. 84 with *P. inflata* p. 85, DJAKONOV 78.
- †*Promopalaeaster meridionalis*, SPENCER 291 p. 407.
- †*Protasteracanthion primus*, LEHMANN 157 p. 409 pl. xx fig. 2.
- †*Protopalaeaster*, SPENCER 291 p. 405.
- Protoreaster lincki*, TORTONESE 314 p. 33.
- Pseudarchaster ornatus* sp. n. Okhotsk Sea, DJAKONOV Tabl. anal. Faune U.R.S.S. 34 1950 pp. 45-46 figs. 92-93; *parelii*, Id. p. 44 figs. 11B, 184.—*P. brachyactis*, MADSEN 169 p. 211 fig. 10.
- Psilaster charcoti*, CLARK 49 p. 336.—P. p. 30 with *P. andromeda* p. 31, *pectinatus* p. 31 fig. 191, DJAKONOV 78.—*P. cassiope*, MADSEN 169 p. 187.
- Pteraster* p. 78 with *P. marsippus* p. 80 fig. 7, *militaris* p. 79, *obscurus* p. 81 fig. 198, *pulvillus* p. 81, *temnochiton* p. 81, *tessalatus* p. 80, DJAKONOV 78.
- Remaster gourdoni*, CLARK 49 p. 337.
- †*Salteraster*, SPENCER 291 p. 406.
- †*Schuchertia junori*, SPENCER 291 p. 407.
- †*Siluraster* with *S. caractaci*, *perfectus* (lectotype selected), SPENCER 291 p. 406.
- Solaster* p. 65 with *S. dawsoni* p. 69 fig. 23, *endeca* p. 67, *glacialis* p. 68, *intermedius* p. 70, *pacificus* p. 67, *paxillatus* p. 70 fig. 24, *stimpsoni* p. 68, *syriensis* p. 69, DJAKONOV 78.
- †*Stauranderaster* Spencer 1907, request to place on "Official list of generic names in Zoology," WRIGHT 332.—*S. boyssi*, see sub *Oreaster*.—*S. sanchezi*, ROIG 248 p. 295.
- Stephanasterias* p. 120, *albula* p. 121 fig. 206, DJAKONOV 78.
- Tethyaster subinermis*, MADSEN 169 p. 186.
- †*Tholaster* Spencer 1913, request to place on "Official index of rejected and invalid generic names in Zoology," WRIGHT 332.

†*Tholasterina* Valette 1915, request to place on "Official index of rejected and invalid generic names in Zoology," WRIGHT 332.

*Thriissacanthias bispinosus* sp. n.  
Okhotsk Sea, DJAKONOV Tabl. anal. Faune U.R.S.S. 34 1950 pp. 29-30.

*Trophodiscus almus, uber*, DJAKONOV 77 p. 170 fig. 4.—*T.* p. 25 with *T. almus* p. 26, *uber* p. 26 fig. 185, DJAKONOV 78.

*Tylaster willei*, DJAKONOV 78 p. 60 fig. 6.

†*Uranaster*, SPENCER 291 p. 405.

†*Ulrichaster* gen. n. for type *Urasterella ulrichi* Schuchert 1915 Ordovician U.S.A., SPENCER Geol. Mag. London 87 1950 p. 406; *biradialis, gutterfordensis*, ID. p. 406.

†*Urasterella asperula*, LEHMANN 156 pp. 269, 271 pl. xii figs. 2, 4, pl. xiii fig. 1; 157 pp. 403, 406-408 pl. xx fig. 1, pl. xxi fig. 1a-b, pl. xxii fig. 2, pl. xxiii fig. 2.—U., SPENCER 291 p. 406.

*Urasterias* p. 113 with *U. lincki* p. 114 fig. 115, DJAKONOV 78.

†*Valettaster ocellatus* see sub *Oreaster*.—V. Lambert 1914, request to place on "Official list of generic names in Zoology," WRIGHT 332.

†*Yarravaster* gen. n. for type *Caractaster yarrensis* Withers & Keeble 1934 Silurian Australia, SPENCER Geol. Mag. 87 1950 p. 408; *Y. parviusculus*, ID. p. 407.

## OPHIUROIDEA

*Amphilepis diastata* sp. n. Japan, MURAKAMI J. Dep. Agric. Kyūsyū 7 1942 pp. 6-8 fig. 2.

*Amphioplus iuxitus* pp. 168-170 fig. 1, *platyacanthus* pp. 170-172 fig. 2, spp. n. Caroline Islands, MURAKAMI J. Dep. Agric. Kyūsyū 7 1943.—*A. diacritus* pp. 225-227 fig. 1, *miyadai* pp. 227-229 fig. 2, spp. n. Japan, MURAKAMI J. Dep. Agric. Kyūsyū 7 1943.

*Amphipholis tetricantha* sp. n. Japan, MATSUMOTO Sci. Rep. Tōhoku Univ. (4) Biol. 16 1941 pp. 336-338 fig. 5; *kochii*, ID. p. 338 fig. 6.

*Amphiura abernethyi* sp. n. New Zealand, FELL Zool. Publ. Victoria Univ. Coll., Wellington No. 13 pp. 1-3 figs. 1-4; *A. norae*, ID. p. 1.—*A. sinicola* sp. n. Japan, MATSUMOTO Sci. Rep.

Tōhoku Univ. (4) Biol. 16 1941 pp. 339-342 fig. 7.—*A. kandai* pp. 11-12 fig. 3, *leptobrachia* pp. 12-13 fig. 4, *macraspis* pp. 14-16 fig. 5, *megapoma* pp. 16-17 fig. 6, *pachybactra* pp. 17-19 fig. 7, spp. n. Japan, MURAKAMI J. Dep. Agric. Kyūsyū 7 1942.—*A. crossota* pp. 172-173 fig. 3, *leptolepis* pp. 174-175 fig. 4, *macroscytalia* pp. 176-177 fig. 5, spp. n. Caroline Islands, MURAKAMI J. Dep. Agric. Kyūsyū 7 1943.—*A. algida, belgicae*, CLARK 50 p. 27.—*A. syntaracha*, MURAKAMI 211 p. 266 fig. 2.

†*Amphiura* ? *senonensis*, RASMUSSEN 240 p. 50 figs. 4-5.

*Aspidophiura uniumbonata* sp. n. Japan, MURAKAMI J. Dep. Agric. Kyūsyū 7 1942 pp. 21-22 fig. 8.

†*Asteronyx* ? *ornatus, simplex*, RASMUSSEN 240 p. 52.

*Asteroschema yaeyamensis* sp. n. Japan, MURAKAMI J. Dep. Agric. Kyūsyū 7 1944 pp. 246-247 fig. 11.

*Astroboa arctos*, MURAKAMI 211 p. 262 pl. i figs. 2-3.

*Astrocanum herrerai* p. 302 figs. 43-44, *spinosum* p. 306 figs. 45-46, CASO 32.

*Astroceras calix* pp. 241-243 figs. 5-6, *coniunctum* pp. 243-244 figs. 7-8, *paucispinum* pp. 244-246 figs. 9-10, spp. n. Japan, MURAKAMI J. Dep. Agric. Kyūsyū 7 1944.—*A. annulatum*, regeneration in, YAMAZI 337 p. 184.

*Astroglymma sculptum*, MURAKAMI 211 p. 263 fig. 1, pl. i fig. 1.

*Astrophyiura marionae* sp. n. S. California, ZIESENHENNE Bull. S. Calif. Acad. Sci. 50 pp. 25-33 pl. xiii figs. 1-2.

†*Bundenbachia beneckeai*, LEHMANN 156 p. 268 pl. xii fig. 1, pl. xiii fig. 4, 157 pp. 403, 409-410, pl. xix figs. 1-2, 5, pl. xxiv fig. 1, pl. xxv figs. 2-3.

*Diopederra danianum*, CASO 32 p. 273 figs. 29-30.

†*Eophiura* with *E. bohemica*, SPENCER 292 p. 113 figs. 19-23, pl. 6 figs. 46-49, pl. 7 figs. 50-53, pl. 8 figs. 56-57.

†*Eospondylus primigenius*, LEHMANN 157 p. 413 pl. xix fig. 4, pl. xxiii fig. 1.

†*Euzonosoma tischbeinianum*, LEHMANN 156 p. 272 pl. xii fig. 3, 157 p. 408 pl. xxiv fig. 2.

†*Furcaster decheni*, LEHMANN 156 p. 272 pl. xiii fig. 2.—*F. decheni* p. 411 pl. xxiv fig. 3, *palaeozoicus* p. 411 pl. xxi fig. 2, pl. xxv fig. 1, LEHMANN 157.

†*Mastigophiura grandis* gen. n., sp. n. Devonian Germany, LEHMANN N. Jb. Geol. Paläont. 93 pp. 410–411 pl. xxiii fig. 3.

*Ophiacantha mitsuii* sp. n. Japan, MURAKAMI J. Dep. Agric. Kyūsyū 7 1942 pp. 3–5 fig. 1.—*O. disjuncta*, CLARK 50 p. 26.

†*Ophiacantha* ? *danica* sp. n. Cretaceous Denmark, RASMUSSEN Medd. dansk. geol. Foren. 12 pp. 52–53 fig. 6; *O.?* sp., Id. p. 56 fig. 8.

*Ophioactis savignyi* p. 287 figs. 37–39, *simplex* p. 293, CASO 32.—*O. modesta*, *savignyi*, regeneration in, YAMAZI 337 p. 184.

*Ophiarachna ohshimae* sp. n. Japan, MURAKAMI J. Dep. Agric. Kyūsyū 7 1943 pp. 211–213 fig. 1.

*Ophiarachnella differens* sp. n. Japan, MURAKAMI J. Dep. Agric. Kyūsyū 7 1944 pp. 270–272 fig. 3.—*O. gorgonia*, MURAKAMI 207 p. 187 fig. 9.

†*Ophialux decheni*, SCHMIDT 272 p. 170 fig. 1.

*Ophiobrachion hamispinum* sp. n. Japan, MURAKAMI J. Dep. Agric. Kyūsyū 7 1944 pp. 239–241 figs. 3–4.

*Ophiobyrsa strictima* sp. n. Japan, MURAKAMI J. Dep. Agric. Kyūsyū 7 1944 pp. 238–239 figs. 1–2.

*Ophioclastus* gen. n. for type *O. hataii* sp. n. Caroline Islands, MURAKAMI J. Dep. Agric. Kyūsyū 7 1943 pp. 190–191 fig. 11.

*Ophiocnemis marmorata*, GRAVELY 107 p. 86 fig. 29, 2.

*Ophiocoma latilanza* sp. n. Caroline Islands, MURAKAMI J. Dep. Agric. Kyūsyū 7 1943 pp. 194–195 fig. 13; *pica*, Id. p. 196 fig. 14.—*O. aethiops* p. 227 figs. 3–6, *alexandri* p. 235 figs. 7–10, CASO 32.—*O. scolopendrina* p. 38, *valenciae* p. 39, TORTONESE 314.

*Ophiocrasis thryptica* sp. n. Caroline Islands, MURAKAMI J. Dep. Agric. Kyūsyū 7 1943 pp. 192–193 fig. 12.—*O. latens* sp. n. Japan, MURAKAMI J. Dep. Agric. Kyūsyū 7 1944 pp. 275–276 fig. 5.

*Ophiocryptus pacificus* sp. n. Caroline Islands, MURAKAMI J. Dep. Agric. Kyūsyū 7 1943 pp. 188–189 fig. 10.—*O. granulosus*, CASO 32 p. 277.

*Ophiocten megaloplax*, CLARK 50 p. 29.

*Ophioderma apressum* p. 249 figs. 15–18, *cinereum* p. 243 figs. 11–14, *panamense* p. 254 figs. 19–20, *teres* p. 258 figs. 21–24, *variegatum* p. 265 figs. 25–28, CASO 32.

†*Ophioderma torrii* sp. n. Jurassic Italy, DESIO Riv. Ital. Paleont. Milano 57 pp. 67–74 figs. 5–6, pl. iii figs. 1–4.

*Ophiolepis cardioplax* sp. n. Caroline Islands, MURAKAMI J. Dep. Agric. Kyūsyū 7 1943 pp. 181–183 fig. 7.—*O. variegata*, CASO 32 p. 278 figs. 31–32.

*Ophiomastix palaoensis* sp. n. Caroline Islands, MURAKAMI J. Dep. Agric. Kyūsyū 7 1943 pp. 199–200 fig. 17; *asperula* p. 197 fig. 15, *caryophyllata* p. 198 fig. 16, Id.

*Ophiomastus ludwigi*, CLARK 50 p. 27 figs. 1–2.

*Ophiomitrella ikedai* sp. n. Japan, MURAKAMI J. Dep. Agric. Kyūsyū 7 1944 pp. 249–250 fig. 12.

*Ophiomoeris pentagona* sp. n. Japan, MURAKAMI J. Dep. Agric. Kyūsyū 7 1944 pp. 252–254 fig. 13.

†*Ophiomusium stephensonii* p. 55 fig. 9, *subcylindricum* p. 50, *O.?* sp. figs. 1–2, RASMUSSEN 240.

*Ophiomyxa australis*, MURAKAMI 210 p. 237.

*Ophionereis aplacophora* sp. n. Japan, MURAKAMI J. Dep. Agric. Kyūsyū 7 1943 pp. 215–217 fig. 2.—*O. dictyota*, CASO 32 p. 223 figs. 1–2.—*O. dubia*, TORTONESE 314 p. 38.

*Ophionotus victoriae*, CLARK 50 p. 29.

*Ophiopholis mirabilis*, MATSUMOTO 174 p. 332 fig. 1, pls. xxi–xxiii.

*Ophiophragmus japonicus* var. *parvus* var. n. Japan, MATSUMOTO Sci. Rep. Tōhoku Univ. (4) Biol. 16 1941 pp. 334–336 figs. 3–4; *O. japonicus*, Id. p. 333 fig. 2.

*Ophiotegastus* gen. n. p. 272 for type *O. instratus* sp. n. Japan, MURAKAMI J. Dep. Agric. Kyūsyū 7 1944 pp. 273–274 fig. 4; *pacificus*, Id. p. 274.

*Ophiosteira senoqui*, CLARK 50 p. 29.

*Ophioteresis beauforti* sp. n. E. Africa, ENGEL Bijdr. Dierk. 28 1949 pp. 140-143 figs. 1-2.

*Ophiothela danae*, regeneration in, YAMAZI 337 p. 184.

*Ophiothrix scotiosa* sp. n. Caroline Islands, MURAKAMI J. Dep. Agric. Kyūsyū 7 1943 pp. 178-180 fig. 6.—*O. rufus* p. 295, *spiculata* p. 297 figs. 40-42, CASO 32.—*O. fragilis* with subspp. *echinata*, *lusitanica* and *pentaphyllum*, COSTA 59.—*O. marenzelleri*, MATSUMOTO 174 p. 342 fig. 8.—*O. vetusta*, MURAKAMI 210 p. 254 fig. 14.—*O. hirsuta*, TORNONESE 314 p. 37.

*Ophiotylos* gen. n. p. 183 for type *O. leucus* sp. n. Caroline Islands, MURAKAMI J. Dep. Agric. Kyūsyū 7 1943 pp. 184-185 fig. 8.

*Ophiozona edilepis* sp. n. Japan, MURAKAMI J. Dep. Agric. Kyūsyū 7 1942 pp. 29-31 fig. 11.—*O. pacifica*, CASO 32 p. 281 figs. 33-36.

*Ophiozonoida innominata* sp. n. Australia, CLARK Ann. Mag. Nat. Hist. (12) 4 pp. 1261-1263 pl. xxi figs. 1-3.

*Ophuira rouchi* p. 28, *serrata* p. 27 figs. 3-4, CLARK 50.—*O. kinbergi* p. 343 fig. 9, *sarsii* p. 343 fig. 10, MATSUMOTO 174.

†*Ophiura eleganoides* sp. n. Cretaceous Argentina, FURQUE & CAMACHO Rev. Assoc. Geol. Argentina 4 1949 p. 277 pl. i fig. 1.—*O. ? hagenowi* p. 51, *serrata* p. 50, cf. *serrata* p. 56 fig. 7, *substriata* p. 52 fig. 3, RASMUSSEN 240.

†*Ophiurina lymani*, LEHMANN 156 p. 269.

*Ophiurodon acanthophora* sp. n. Japan, MURAKAMI J. Dep. Agric. Kyūsyū 7 1942 pp. 31-33 fig. 12.

*Ophiurolepis gelida* p. 28, *martensi* p. 29, CLARK 50.

*Palaeura* with *P. neglecta*, SPENCER 292 p. 118 figs. 24, 26A, 27B.

†*Pradesura* gen. n. for type *Palaeura jacobi* Thoral 1935 Ordovician France, SPENCER Phil. Trans. London 235B pp. 111-113 fig. 17, pl. 5 figs. 41-45.

†*Pseudaspidura* gen. n. with *P. hungarica* sp. n. Oligocene Hungary, KOLOS-VÁRY Palaeont. Z. 22 1941 pp. 307-309 figs. 1-3.

*Stegophiura liodisca* pp. 23-25 fig. 9, *rhabdotopla* pp. 25-27 fig. 10, spp. n. Japan, MURAKAMI J. Dep. Agric. Kyūsyū 7 1942.

†*Urosoma ? bakeri, parvus*, SPENCER 291 p. 407.

### CRINOIDEA

†*Brachialia* gen. et sp. indet., SIEVERTS-DORECK 277 p. 138 figs. 4-5, p. 141.

†*Columnal* 1 p. 240 pl. i fig. 40, 2 p. 240 pl. i fig. 41, GILL 96.

†*Radiale*, gen. et sp. indet., SIEVERTS-DORECK 277 p. 141 fig. 8.

†*Crinoid* indet., TERMIER & TERMIER 309 pl. ccxvi figs. 12-16, pl. ccix figs. 5, 17-20, 26, 32-33, pl. ccxx figs. 1-4, pl. ccxvii fig. 27.

†*Crinoidea ?*, indet., TERMIER & TERMIER 309 pl. ccviii figs. 22, 29-31, 33-35, pl. ccx figs. 16, 19-21, pl. ccxi figs. 29-32, 35-36, 39-41, 45-48, pl. ccxii figs. 9, 12-13, pl. ccxiii figs. 14-15, 30-33, pl. ccxv figs. 12-16, 19-20, pl. ccxvi figs. 17-22, pl. ccxvii fig. 16, pl. ccxviii figs. 15-17, 53, pl. ccix figs. 1, 7-16, 24-25, 27-28, 34, pl. ccxx figs. 8-33, pl. ccxi figs. 15-18, pl. ccxiii figs. 10-18, 22-26, pl. ccxiv figs. 1-31, 36-45, pl. ccxv figs. 4-5, 10-11, 17-28, pl. ccxvi figs. 7-8, 10-16, 18-22, 30-33, pl. ccxvii figs. 7-10, 18, pl. ccxviii figs. 17-19, 27-28, pl. ccxxxi figs. 3-10, 12.

†*Abrotocrinus ornatus* sp. n. Carboniferous Morocco, TERMIER & TERMIER Notes Mem. Serv. Carte géol. Maroc 79 1950 pp. 91, 100 pl. ccxxi figs. 9-14; A. sp., Id. p. 91 pl. ccxviii figs. 27-30.—*A. angustatus*, WRIGHT 333 p. 69 figs. 34-36, pl. xxxi figs. 3, 6-9.

†*Acanthocrinus gracilior* p. 366, *gregarius* p. 367, *longispina* p. 364 figs. 1-3, SIMON 283.

†*Acrocrinus expansus* sp. n. Carboniferous U.S.A., STRIMPLE J. Wash. Acad. Sci. 41 pp. 192-194 figs. 1, 17-20.

†*Actinocrinus skourensis* sp. n. Carboniferous Morocco, TERMIER & TERMIER Notes Mem. Serv. Carte géol. Maroc 79 1950 pp. 84, 100 pl. ccviii fig. 36; *stellaris*, Id. p. 84 pl. ccviii fig. 32, pl. ccxii figs. 7-8, pl. ccxiv figs. 1-8, 14-16.

†*Adunata*, genus undet., TERMIER & TERMIER 309 pl. cex fig. 11.

†*Aesiocrinus detrusus* pp. 199–200 pl. xxviii figs. 1–3, *luxuris* pp. 198–199 pl. xxix figs. 7–10, *parucus* pp. 200–201 pl. xxix figs. 1–3, spp. n. Carboniferous U.S.A., STRIMPLE Bull. Amer. Paleont. Ithaca 33.—*A. erectus* sp. n. Carboniferous U.S.A., STRIMPLE J. Wash. Acad. Sci. 41 pp. 191–192 figs. 9–12.—*A. tactilis* sp. n. Carboniferous U.S.A., STRIMPLE J. Paleont. 25 pp. 375–376 pl. lvi figs. 5–7.

†*Agassizocrinus patulus* sp. n. Carboniferous U.S.A., STRIMPLE J. Paleont. 25 pp. 672–673 pl. xciv figs. 9–10, pl. xcix fig. 12.

*Aglaometra* p. 107, *incerta* p. 114, *propinqua* p. 116 pl. xv fig. 47, *sulcata* p. 118 pl. xiii fig. 40, *valida* p. 109 pl. xii fig. 37, pl. xiii figs. 38–39, CLARK 48.

†*Allagecrinus bassleri* subsp. *nodosus* p. 204 pl. xxxvii figs. 1–4, subsp. *status* p. 204 pl. xxxvii figs. 5–8, subsp. n. Carboniferous U.S.A., STRIMPLE J. Paleont. 25.

†*Allosocrinus porosus* sp. n. Carboniferous U.S.A., STRIMPLE Bull. Amer. Paleont. Ithaca 33 1951 pp. 197–198 pl. xxviii fig. 7.

†*Ampelocrinus plumosus* sp. n. Carboniferous Scotland, WRIGHT Palaeontogr. Soc. (Monogr.) London 1951 pp. 93–94 pl. xxx fig. 3.

†*Amphipsalidocrinus scissurus*, PECK and CONNELLY 228 p. 415 figs. 5–6.

†*Amphorocrinus rochi*, TERMIER & TERMIER 309 p. 83 pl. cxi figs. 37–41.

†*Anemocrinus ardrossensis* p. 27 fig. 6, *biserialis* fig. 5, *covensis* p. 28 fig. 8, *pentonensis* p. 28 fig. 7, WRIGHT 333.

*Antedon mediterranea*, MÜLLECKER 203 p. 18 fig. 4.

†*Aphelecrinus exoticus* pp. 292–294 fig. 5, *planus* p. 292 figs. 9–11, spp. n. Carboniferous U.S.A., STRIMPLE J. Wash. Acad. Sci. 41.—*A.?* *greenhillensis* sp. n. Carboniferous England, WRIGHT Palaeontogr. Soc. (Monogr.) London 1951 p. 47 pl. xxx fig. 1; *A. dilatatus* p. 45 pl. xii figs. 5–6, 9–13, 26, 35, 37, *dunlopi* p. 43 figs. 13–14, pl. xi figs. 1, 5, 9, pl. xiii figs. 2–4, *parvus* p. 46 pl. xii fig. 14, *roscobiensis* p. 46 pl. xii figs. 31–33, *A. sp.* p. 47 pl. xii fig. 4, ID.

†*Apographiocrinus* sp., TERMIER & TERMIER 304 p. 89 pl. ccxxii figs. 1–3.

†*Arthroacantha* spp., TERMIER & TERMIER 309 p. 85 pl. ccxiii figs. 16–21, pl. ccxv figs. 21–22, 29, pl. ccxx figs. 5–7, pl. ccxiv figs. 33–34, 48–49.

†*Aulodesocrinus parvus*, WRIGHT 333 p. 73 fig. 37.

†*Austinocrinus cubensis*, ROIG 248 p. 292.

†*Balanocrinus diaboli* p. 154 pl. i fig. 15, *subbasaltiformis* p. 154 pl. i figs. 19–20, MALARODA 170.—*B. cubensis*, ROIG 248 p. 291.

†*Blothrocrinid* WRIGHT 333 p. 51 pl. xxvii fig. 2, pl. xxviii fig. 1.

†*Blothrocrinus balconi* sp. n. Carboniferous Morocco, TERMIER & TERMIER Notes Mem. Serv. Carte géol. Maroc 79 1950 pp. 90, 101 pl. ccxviii figs. 18–26.—*B. brevidactylus* p. 38 pl. x fig. 6, *impressus* p. 39 pl. xiii fig. 6, *longidactylus* p. 36 pl. viii figs. 5–6, pl. x figs. 1, 3, *rugosus* p. 39 pl. x fig. 5, WRIGHT 333.

†*Bollandocrinus* gen. n. for type *Poteriocrinus conicus* Phillips 1836 Carboniferous England, WRIGHT Palaeontogr. Soc. (Monogr.) London 1951 p. 62; *B. erectus* sp. n. Carboniferous England, ID. p. 64 pl. xiv figs. 11–13; *conicus* p. 63 pl. xiv figs. 1–10, 14–16, *cravenensis* p. 64 pl. xvii fig. 18, ID.

†*Botryocrinus arkenensis* sp. n. pp. 31–32 pl. i figs. 14–15, pl. ii figs. 1–8, *reimanni* var. *granilineatus* var. n. pp. 30–31 pl. i figs. 12–13, Devonian U.S.A., GOLDRING Bull. Wagner Inst. Sci. Philad. 35 1950; *B. reimanni*, ID. p. 29 pl. i figs. 1–11.—*B.?* *cylindricus*, GOLDRING 100 p. 27 pl. i figs. 1–6.—*B. sp.*, TERMIER & TERMIER 309 p. 88 pl. ccxii figs. 1–5, pl. ccxvi figs. 23–24.

†*Bronaughocrinus* gen. n. for type *B. figuratus* sp. n. Carboniferous U.S.A., STRIMPLE J. Paleont. 25 pp. 671–672 pl. xcix figs. 9–11.

†*Camerata*, genus undet., TERMIER & TERMIER 309 pl. ccx fig. 18, pl. ccxxvi figs. 1–4, pl. ccxxvi figs. 25–29.

*Charitometra* p. 347, *basicurva* p. 348, *incisa* p. 352, CLARK 48.

*Chlorometra* p. 221, *garrettiana* p. 222 pl. xx fig. 64, CLARK 48.

*Chondrometra* p. 201, *aculeata* p. 204, *robusta* p. 202 pl. xix fig. 60, *rugosa* p. 206, CLARK 48.

†*Cibolocrinus* p. 185 with *abyssus* pp. 189–190 pl. xxv figs. 5–6, *conicus* pp. 188–189 pl. xxvi figs. 1–3, *detectus* pp. 190–192 pl. xxv figs. 7–8, *detrusus* p. 190 pl. xxv figs. 1–4, spp. n. Carboniferous U.S.A., STRIMPLE Bull. Amer. Paleont. Ithaca 33; *punctatus* p. 185, *robustus* p. 185 pl. xxvi figs. 6–8, *C.* sp. p. 185 pl. xxvi figs. 4–5, Id.—*C. erectus* sp. n. Carboniferous U.S.A., STRIMPLE J. Paleont. 25 pp. 203–204 pl. xxxvi figs. 5–7.

†*Clarkeocrinus troostii*, GOLDRING 101 p. 34 pl. ii fig. 10.

†*Conocrinus pyriformis*, MALARODA 170 p. 153.

†*Cosmetocrinus extensus* sp. n. Carboniferous Yorkshire, WRIGHT Palaeontogr. Soc. (Monogr.) London 1950 [1951] pp. 40–41 pl. x fig. 8; *C.* sp. p. 41 pl. x fig. 7, Id.

*Cosmiometra* p. 41, *C. iole* sp. n. Philippine Islands, CLARK Bull. U.S. nat. Mus. No. 82 I 4c 1950 pp. 61–63 pl. iv fig. 15; *aster* p. 49 pl. vi fig. 21, *conifera* p. 56 pl. iii figs. 10–11, pl. iv fig. 15, *crassicirra* p. 58 pl. x fig. 33, *dasybrachia* p. 47, *decipitula* p. 46 pl. iii fig. 9, *gardineri* p. 63, *leilae* p. 43 pl. v fig. 17, pl. vi fig. 23, *philippinensis* p. 52 pl. v fig. 16, pl. vi fig. 22, *woodmasoni* p. 60, Id.

†*Craterocrinus skinneri* sp. n. Devonian U.S.A., GOLDRING Circ. N.Y. St. Mus. No. 27 pp. 3–6 pl. i figs. 1–2; *ruedemannii* p. 5 pl. i figs. 4–5, *schoharie* p. 5 pl. i fig. 3, Id.

*Crinometra* p. 279, *C. brevipinna* with var. *angusta* var. n. pp. 335–338 and var. *pulchella* var. n. pp. 297–298 West Indies, Clark Bull. U.S. nat. Mus. No. 82 I 4c 1950; *C. brevipinna* p. 280 pl. xxx fig. 90, pl. xxxi fig. 93 with vars. *brevipinna* p. 312, *concinna* p. 298, *coronata* p. 320, *diadema* p. 308, *gemmata* p. 318 pl. xxx fig. 92, *gracilis* p. 296, *granulifera* p. 326, *granulosa* p. 325, *inornata* pl. xxxii fig. 98, *insculpta* p. 291 pl. xxxii fig. 99, *laevis* p. 311, *margaritacea* p. 307 pl. xxxi fig. 94, *ornata* p. 323, *pourtalèsi* p. 309, *pulchra* p. 334 pl. xxx fig. 91, *spinosa* p. 316, *transversa* p. 301, *tuberosa* p. 303, Id.

†*Crotalocrinites coniforme* p. 13 pl. i figs. 6–9, *rugosus* p. 12 pl. i figs. 1–5, BOUŠKA 28. [*C. coniforme* is given as sp. n., but see Zool. Rec. 85 (5) for 1948 p. 16].

†*Crotalocrinidae* gen. et sp. indet., BOUŠKA 28 p. 21 pl. iv fig. 5.

*Crotalometa* p. 89, *C. magnicirra* p. 97, *rustica* p. 92 pl. xi figs. 35–36, pl. xviii fig. 58, *sentifera* p. 91 pl. xxxii figs. 100–103, CLARK 48.

†*Ctenocrinus pulvinatus* pp. 122–123 pl. ix figs. 1–3, *umbraculum* pp. 123–124 pl. ix figs. 6–7, *unnenbergensis* pp. 124–125 pl. ix figs. 4–5, spp. n. Devonian Germany, LÜTTIG Paläont. Z. 24.

†*Cyathidium* ? sp. (n. sp.?), SIEVERTS-DORECK 278 p. 1 pl. i figs. 1–5.

†“*Cyathocrinites*” *pinnatus*, TERMIER & TERMIER 309 p. 93 pl. ccxiii figs. 22–29.

†*Cyathocrinidae*, genus undet., TERMIER & TERMIER 309 p. 88 pl. ccxviii figs. 31–32.

†*Cymbiocrinus gravis* sp. n. Carboniferous U.S.A., STRIMPLE Bull. Amer. Paleont. Ithaca 33 pp. 196–197 pl. xxviii figs. 4–6.

*Daidalometra* p. 23, *D. eurymedon* sp. n. Philippine Islands, CLARK Bull. U.S. nat. Mus. No. 82 I 4c 1950 pp. 24–25; *arachnoides* p. 25 pl. iii fig. 12, *hana* p. 27 pl. iv fig. 13, Id.

†*Decadocrinus trymensis* sp. n. Carboniferous England, WRIGHT Palaeontogr. Soc. (Monogr.) London 1951 pp. 60–62 pl. xiii fig. 7; *fifensis* p. 59 figs. 21–33, pl. xii figs. 22, 36, *D.?* sp. 1 p. 62 pl. xiii fig. 9, *D.?* sp. 2 p. 62 pl. xiii fig. 8, Id.

*Decametra durbanensis* sp. n. E. Africa, CLARK Ann. Mag. Nat. Hist. (12) 4 pp. 1265–1267 fig. 4.

†*Delocrinus* sp., STRIMPLE 295 p. 200 pl. xxxvi figs. 1–4.

†*Dendrocrinoidea*, genus undet., TERMIER & TERMIER 309 p. 88 pl. ccviii figs. 16–21, 23–24, pl. ccxv figs. 17–18, pl. ccxvi figs. 7–8, pl. ccxxii figs. 23–24, pl. ccxxiii figs. 2–3, pl. ccxxv figs. 12–16, pl. ccxxvi figs. 5–6, pl. ccxxviii figs. 15–16, 20–24.

†*Derbiocrinus* gen. n. for type *D. diversus* sp. n. Carboniferous Scotland, WRIGHT Palaeontogr. Soc. (Monogr.) London 1951 pp. 79–81 pl. xiv figs. 19–24.

†*Desmidocrinus salagastianus* sp. n. Cambrian Argentina, RUSCONI An. Soc. cient. argent. 152 pp. 256–257.

†*Diamenocrinus* sp., TERMIER & TERMIER 309 p. 83 pl. cxxix fig. 4.

†*Dichocrinus* cf. *radiatus* p. 85 pl. cxxvii fig. 15, D. sp. pl. cxiv fig. 9, TERMIER & TERMIER 309.—D. cf. *expansus*? see *Entrochus* sp. C.; D. sp.? see *Entrochus* sp. D.

†*Dicromyocrinus optimus* sp. n. Carboniferous U.S.A., STRIMPLE Bull. Amer. Paleont. Ithaca 33 pp. 193–195 pl. xxv figs. 1–4.—D. *periodus* sp. n. Carboniferous U.S.A., STRIMPLE J. Paleont. 25 p. 375 pl. lvi figs. 1–4.—D. *geminatus*, WRIGHT 333 pl. xii figs. 23–25.

†*Dinotocrinus alvestonensis* sp. n. Carboniferous England pp. 71–72 pl. xiii fig. 5, *eirensis* sp. n. Carboniferous Eire pp. 70–71, pl. xiii fig. 1, D. *pergracilis* sp. n. Austin ms., Carboniferous England p. 72 pl. xxx fig. 8, WRIGHT Palaeontogr. Soc. (Monogr.) London 1951.

†*Diplobathra*, genus undet., TERMIER & TERMIER 309 pl. cxx figs. 13–15, 17, pl. cxxxi figs. 4–7, 8–9?, pl. cxxxiv figs. 35, 46–47, 50–51.

†*Dolatocrinus bethaniensis* sp. n. [nom. n. for *D. springeri* Goldring 1936 non *D. springeri* Rowley 1903] Devonian U.S.A., GOLDRING Bull. Wagner Inst. sci. Philad. 25 1950 p. 33 pl. ii fig. 9.

†*Eireocrinus* gen. n. for type *E. ornatus* sp. n. Carboniferous Ireland, WRIGHT Palaeontogr. Soc. (Monogr.) London 1951 p. 102 pl. xxxi fig. 2.

†*Encrinites* cf. *laetus* p. 93 pl. cxxix fig. 1, cf. *nympharum* p. 93 pl. cxxix fig. 6, TERMIER & TERMIER 309.

†*Entrochus* sp. A p. 129 pl. ix fig. 9, sp. B p. 130 pl. ix fig. 8, sp. C (ex aff. *Dichocrinus* cf. *expansus*) p. 135, sp. D (*Dichocrinus* sp.?) p. 136, sp. E p. 136 fig. 3, pl. ix fig. 11, sp. F (ex aff. *Hydriocrinus ratingensis*) p. 139 fig. 7, sp. G p. 142, sp. H p. 142 pl. viii fig. 11, SIEVERTS-DORECK 277.

†*Erisocrinus lustrum* sp. n. Carboniferous U.S.A., STRIMPLE J. Paleont. 25 pp. 373–374 pl. lvi figs. 8–10.—*E. carlopensis*, WRIGHT 333 p. 101 pl. xxx figs. 11–12.—*E. sp.*, TERMIER & TERMIER 309 p. 90 pl. coxvii figs. 19–21.

†*Euonychocrinus subservire* sp. n. Carboniferous U.S.A., STRIMPLE J. Paleont. 25 pp. 206–207 pl. xxxviii figs. 3–4, pl. xxxix figs. 3–4, 11.

†*Eupachycrinus modernus* sp. n. Carboniferous U.S.A., STRIMPLE J. Wash. Acad. Sci. 41 pp. 291–292 figs. 6–8.—*E. macneanensis* pp. 91–92 pl. xxxi figs. 12, 14, *vapidus* pp. 92–93 fig. 41, pl. xxx figs. 7, 13, spp. n. Carboniferous Ireland, WRIGHT Palaeontogr. Soc. (Monogr.) London 1951.

†*Fifeocrinus* gen. n. p. 41 for type *Pachylocrinus tielensis* Wright 1936 Carboniferous Scotland, WRIGHT Palaeontogr. Soc. (Monogr.) London 1950 1951 pp. 42–43 figs. 11, 12, pl. xi figs. 2–4, 6, 8.

†*Flexibilia*, genus undet., TERMIER & TERMIER 309 pl. cxxiii figs. 34–35, pl. cxxv figs. 23–28, pl. cxxvii figs. 3–4, pl. cxxix fig. 6, figs. 29–31, 35–39.

*Florometra mawsoni*, CLARK 49 p. 335.

†*Forthocrinus lepidus*, WRIGHT 333 p. 72.

†*Gennaeocrinus kentuckiensis*, GOLDRING 99 p. 1 pl. i figs. 1–3.—*G. nyssa*, GOLDRING 101 p. 34 pl. ii fig. 11.—cf. *G. sp.*, TERMIER & TERMIER 309 pl. cxxix figs. 2–3, pl. cxxvi fig. 17.

†*Gilbertocrinus spinigerus*, GOLDRING 101 p. 35 pl. ii figs. 12–14.

†*Gissocrinus lucentus* sp. n. Silurian England, RAMSBOTTOM Ann. Mag. nat. Hist. (12) 4 pp. 494–496 figs. 6–7, pl. ix figs. 5–8; *squamiferus* p. 491 figs. 2–5, pl. ix figs. 1–4, Id.—*G. salagastensis* sp. n. Cambrian Argentina, RUSCONI An. Soc. cient. argent. 152 p. 257.

†*Glaukosocrinus* gen. n. for type *Maiaciocrinus parvisculus* Moore & Plummer 1940 Carboniferous U.S.A., STRIMPLE J. Wash. Acad. Sci. 41 p. 191 figs. 13–16.

*Glyptometra* p. 227, *angusticalyx* p. 263, *annae* [nom. nud.] p. 238, *crassa* p. 237 pl. xxi fig. 68, *distincta* p. 249 pl. xxii figs. 70–72, pl. xxiv fig. 73, *hector* [nom. nud.] p. 239, *inaequalis* p. 243, *invenusta* p. 275 pl. xxix fig. 89, *investigatoris* p. 254 pl. xxiv figs. 74–75, pl. xxv figs. 76–78, *lata* p. 272 pl. xxviii figs. 84–86, pl. xxix fig. 88, *lateralis* p. 276 pl. xxix fig. 87, *levigata* p. 271 pl. xxvii figs. 82–83, *macilenta* p. 259 pl. xxvi figs. 79–81, *sclateri* p. 268, *septentrionalis* p. 246, *sparksi* p. 266, *timorensis* p. 230 pl. xxi figs. 66–67, *tuberosa* p. 232 pl. xxii fig. 69, *G. sp.* p. 278, CLARK 48.

†*Graphiocrinus bridgeportensis* sp. n.  
Carboniferous U.S.A., STRIMPLE J.  
Paleont. 25 pp. 201–202 pl. xxxvii figs.  
9–12.

†*Haplocrinites clio*, TERMIER & TER-  
MIER 309 p. 88 pl. ccxxviii figs. 3–14.

†*Heliosocrinus* gen. n. for type *H.*  
*aftonensis* sp. n. Carboniferous U.S.A.,  
STRIMPLE J. Paleont. 25 pp. 675–676 pl.  
xviii figs. 3–4, 7–8.

†*Hexacrinus* sp., TERMIER & TERMIER  
309 p. 84 pl. cxi figs. 23–28, 33–34,  
37–38.

†“*Homocrinus*” *cylindricus*, GOLD-  
RING 100 p. 25.

*Horaeometra* p. 185, *duplex* p. 186 pl.  
vi fig. 24, CLARK 48.

†*Hydreionocrinus amplus* sp. n. Car-  
boniferous Scotland, WRIGHT Palaeo-  
ontogr. Soc. (Monogr.) London 1950  
1951 & 1951 pp. 84–87 fig. 40, pl. xii  
figs. 1–3, pl. xvi figs. 1, 3–4, 6, 7 ?, 8–9,  
11 ?, pl. xvii figs. 1, 3, 5, 10–14, 16–17,  
19–20; cf. *amplus* p. 87 pl. xiv figs.  
17–18, *artus* p. 88 pl. xii figs. 15–21, 27–  
29, 34, *balladoensis* p. 90 pl. xv figs.  
9, 11, *formosus* p. 89 pl. xvi figs. 2, 5, 10,  
*goniodactylus* p. 82 pl. xv figs. 1–3, 13–  
14, *H.?* *nitidus* p. 90 pl. xv figs. 7, 10, *H.*  
*parkinsoni* p. 89 pl. xv figs. 4–6, *verru-  
cosus* p. 91 pl. xv figs. 8, 12, ID. —*H.*  
*ratingensis* ?, see *Entrochus* sp. F.

†*Hypocrinus* sp., YAKOVLEV 335 p.  
577 fig. 1.

†*Hypsocrinus ardrossensis* sp. n.  
Carboniferous Scotland, WRIGHT Palaeo-  
ontogr. Soc. (Monogr.) London 1950  
1951 pp. 33–34 pl. xi fig. 7; *mönensis* p.  
32 fig. 10, pl. viii figs. 4, 9, ID.

†*Iberocrinus* gen. n. p. 105 for type *I.*  
*multibrachiatus* sp. n. Carboniferous  
Spain, SIEVERTS-DORECK Paläont. Z.  
Berlin 24 pp. 109–111 figs. 2d, 3, pl. viii  
figs. 1–2.

†*Indocrinus* sp., YAKOVLEV 335 p. 577  
fig. iii.

†*Isocrinus anulatus* p. 5 pl. i fig. 2,  
*dolomiticus* p. 4 pl. i fig. 1, spp. n. Trias  
Italy, LEONARDI & LOVO Studi Trentini  
27 1950.—*I. gočevi* sp. n. Cretaceous  
Bulgaria, SIEVERTS-DORECK Paläont. Z.  
Berlin 24 pp. 72–75 fig. 1a–e.—*I. nicoleti*,  
HESS 123 p. 215 pl. xi fig. 1.—*I.* cf.  
*d'archiaci*, MALARODA 170 p. 153 pl. i  
fig. 14a–b.

*Koehlermetra* gen. n. p. 100 for type  
*Antedon porrecta* Carpenter 1888 Eastern  
Atlantic, CLARK Bull. U.S. nat. Mus.  
No. 82 I 4c 1950 pp. 101–105; *flava*  
p. 105, ID.

*Lamprometra palmata*, *Myzostoma*  
*striata* attached to dorsal surface of,  
GEORGE 94.

*Lecythocrinus optimus* sp. n. Carboni-  
ferous U.S.A., STRIMPLE J. Wash. Acad.  
Sci. 41 p. 194 figs. 6–8.—*L. tubiformis*  
sp. n. Carboniferous U.S.A., STRIMPLE  
J. Paleont. 25 p. 376 pl. lvi figs. 15–16.

*Lelametra* p. 148, *necopinata* p. 149  
pl. xvi figs. 48–49, CLARK 48.

*Lissometra* p. 88, *L. alboflava* p. 88  
pl. xi fig. 34, CLARK 48.

†*Lophocrinus minutus*, HROMADA 129  
p. 75 pl. iv fig. 12, 130 p. 8 pl. iv fig. 12.

†*Lyriocrinus britannicus* sp. n. Silu-  
rian England, RAMSBOTTOM Ann. Mag.  
nat. Hist. (12) 3 1950 pp. 653–655 figs.  
2a–b, pl. ix figs. 1–4; *L. melissa*, ID.  
p. 651 figs. 1 a–f.

†*Mantikosocrinus* gen. n. for type *M.*  
*castus* sp. n. Carboniferous U.S.A.,  
STRIMPLE J. Paleont. 25 pp. 673–674 pl.  
xcviii figs. 11–13.

†*Megaliocrinus exotericus* sp. n. Car-  
boniferous U.S.A., STRIMPLE Bull. Amer.  
Paleont. Ithaca 33 pp. 192–193 pl. xxvii  
figs. 5–8.

†*Mespilocrinus*, STRIMPLE 294 p. 184.

†*Metichthycrinus* sp., TERMIER &  
TERMIER 309 p. 92 pl. ccxviii figs. 48–52.

*Monachometra* p. 208, *flexilis* p. 213,  
*fragilis* p. 219 pl. xx figs. 62–63, *patula*  
p. 209 pl. xx fig. 61, *robusta* p. 216,  
CLARK 48.

†*Monobathra*, genus undet., TERMIER  
& TERMIER 309 pl. ccxi fig. 44, pl. ccxv  
figs. 8–9, pl. ccxxvi figs. 34–35, pl.  
ccxxviii figs. 25–26.

†*Monobrachiocrinus* sp., YAKOVLEV  
335 p. 577 fig. ii.

†*Mysticocrinus* sp., TERMIER &  
TERMIER 309 p. 88 pl. ccxvi figs. 9–11.

*Oceanometra* p. 137, *annandalei* p. 144  
pl. xv figs. 45–46, *gigantea* p. 139 pl. xiv  
fig. 41, *magna* p. 142 pl. xiv figs. 42–43,  
CLARK 48.

†*Octocrinus inconsuetus* p. 414 figs.  
1–4, *scissurus* p. 415 figs. 5–8, PECK &  
CONNELLY 228.

†*Oklahomacrinus regularis* sp. n. Carboniferous U.S.A., STRIMPLE Bull. Amer. Paleont. Ithaca 33 pp. 204–205 pl. xxviii figs. 8–9.

†*Orocrinus* gen. n. p. 119 with type *O. hercynicus* sp. n. Carboniferous Germany, SIEVERTS-DORECK N. Jahrb. Geol. Paläont. Abhandl. 93 pp. 124–126 fig. 1, pl. viii figs. 1–7; *granulosus* p. 129 pl. ix fig. 5, *grundensis* pp. 127–128 pl. ix figs. 1–2, 4, *winterbergensis* pp. 126–127 pl. viii figs. 8–10, pl. ix fig. 3 ?, spp. n. Carboniferous Germany, Id.; *O.?* sp. A p. 130 fig. 2, pl. ix figs. 6–7, *O.?* sp. B p. 134, Id.

†*Pachylocrinus* ? *skinneri* pp. 68–69 pl. xxxi fig. 4, *P.?* *wexfordensis* pp. 66–67 pl. xxxi figs. 1, 10, 13, spp. n. Carboniferous Eire, WRIGHT Palaeontogr. Soc. (Monogr.) London 1951; *P.?* *crassimanus* p. 67 pl. xxxi fig. 11, *P.?* *latifrons* p. 65 pl. xxxi fig. 5, Id.

†*Paianocrinus* gen. n. for type *P. durus* sp. n. Carboniferous U.S.A., STRIMPLE J. Paleont. 25 pp. 669–670 pl. xcix figs. 6–8; *aptus* sp. n. Carboniferous U.S.A., Id. pp. 670–671 pl. xcix figs. 3–5.

†*Paracomatula* gen. n. for type *P. helvetica* sp. n. Jurassic Switzerland, HESS Ecl. geol. helv. 43 pp. 209–215 figs. 1–12, pl. xi figs. 1–2.

*Parametra* p. 64, *P. lisa* sp. n. Kei Islands, CLARK Bull. U.S. nat. Mus. No. 82 I 4c 1950 pp. 83–84; *ajax* p. 84 pl. ix fig. 29, *compressa* p. 85 pl. viii fig. 26, *fisheri* p. 86 pl. ix fig. 28, *granulata* p. 89 pl. viii fig. 25, pl. x figs. 31–32, *orion* p. 72 pl. v figs. 19–20, pl. viii fig. 27, pl. x fig. 30, Id.

†*Parulocrinus wallacei* sp. n. Carboniferous Morocco, TERMIER & TERMIER Notes Mem. Serv. Carte géol. Maroc 79 1950 pp. 91, 100 pl. cxvii figs. 5–14, 17–18, pl. cxviii figs. 6–8, 14–22; *P. sp.*, Id. pl. cxviii figs. 4–5.

†*Pedinocrinus* gen. n. for type *Pachylocrinus clavatus* Wright 1937 Carboniferous Scotland, WRIGHT Paleontogr. Soc. (Monogr.) London 1951 p. 77 pl. xxx figs. 4, 6.

†*Periechocrinites*, application to designate *P. costatus* Austin & Austin 1843 as type in place of *P. articulosus*; lectotype of *P. costatus* selected, RAMSBOTTOM 237.

†*Perimestocrinus moseleyi* sp. n. Carboniferous U.S.A., STRIMPLE J. Paleont. 25 p. 205 pl. xxxix figs. 5–10.

†*Pernerocrinus paradoxus* p. 18 fig. 6, pl. iii figs. 1–4, pl. iv figs. 1–3, *P.?* sp. indet. p. 21 pl. iv fig. 4, BOUŠKA 28. [*P. paradoxus* is given as gen. et sp. n., but see Zool. Rec. 85 (5) for 1948 p. 16].

†*Phacelocrinus rostratus* p. 29 fig. 9, pl. viii figs. 1–3, 7–8, 10, pl. x fig. 4; *P.?* *pentagonus* p. 32 pl. ix, WRIGHT 333.

*Phanocrinus irregularis* pp. 262–263 figs. 5–9, *modulus* p. 263 figs. 10–12, spp. n. Carboniferous U.S.A., STRIMPLE J. Wash. Acad. Sci. 41.—*P. ornatus* sp. n. Carboniferous Scotland, WRIGHT Palaeontogr. Soc. (Monogr.) London 1951 p. 98 pl. xviii fig. 28, pl. xix figs. 14, 17; *P.?* *altus* p. 101 pl. xvii figs. 2, 4, *ardrossensis* p. 97, *calyx* p. 94 pl. xvii figs. 15, 21, pl. xviii figs. 1–20, 22–23, 29, *gordoni* p. 99 pl. xvii figs. 6–9, 22, 23, pl. xix figs. 11–12, *scoticus* p. 96 pl. xviii fig. 21, *stellaris* p. 98 pl. xviii figs. 24–27, Id.—*P. cylindricus*, STRIMPLE 300 p. 291 fig. 12.—*P. cf. formosus*, TERMIER & TERMIER 309 p. 90 pl. ccxxi figs. 1–8.

†*Pirasocrinus invaginatus* sp. n. Carboniferous U.S.A., STRIMPLE J. Paleont. 25 p. 202 pl. xxxvi figs. 8–11, pl. xxxviii figs. 5–6.

†*Platycrinus* cf. *expansus* p. 86 pl. ccxii figs. 1–6, *P. spinifer elongatus* p. 86 pl. ccxi figs. 1–6, pl. ccxxvi figs. 36–38, *P. spinosus* p. 86 pl. ccxxvi figs. 42–44, *tuberculatus* p. 86 pl. ccxii figs. 10–11, *P. spp.* pp. 86–87 pl. ccxi figs. 7–22, 42–43, pl. ccxii figs. 14–19, pl. ccxv figs. 2–7, 10–11, pl. ccxvi figs. 39–41, pl. ccxxvii figs. 1–6, 11–17, 19–26, TERMIER & TERMIER 309.—*P.?* sp., SIEVERTS-DORECK 277 p. 134 pl. ix fig. 10.

†*Plaxocrinus gloukonsensis* sp. n. Carboniferous U.S.A., STRIMPLE J. Paleont. 25 pp. 374–375 pl. lvii figs. 1–6.—*P. laxus* p. 205 pl. xxxviii figs. 1–2, *oeconomicus* p. 206 pl. xxxviii figs. 7–8, spp. n. Carboniferous U.S.A., STRIMPLE J. Paleont. 25.

†*Plummericrinus braggi* sp. n. Carboniferous U.S.A., STRIMPLE Bull. Amer. Paleont. Ithaca 33 pp. 195–196 pl. xxvii figs. 9–12.

*Poecilometra* p. 354, *acoela* p. 355, *scalaris* p. 359, CLARK 48.

†*Polusocrinus* gen. n. for type *P. avanti* sp. n. Carboniferous U.S.A., STRIMPLE Bull. Amer. Paleont. Ithaca **33** pp. 202–203 pl. xxix figs. 4–6; *rosa* sp. n. Carboniferous U.S.A., Id. pp. 203–204 pl. xxix fig. 11.

†*Poteriocrinus* cf. *conicus* p. 89 pl. cxxviii figs. 37–38, *P. crassus* p. 89 pl. cxxviii figs. 1–5, pl. cxxix fig. 1, pl. cxxv figs. 6–9, pl. cxxvi fig. 9, *P. spp.* pl. cxxv fig. 1, pl. cxxvi figs. 5–6, pl. cxxviii figs. 6–12, 33–36, pl. cxxxv figs. 1–3, TERMIER & TERMIER **309**.

*Promachocrinus kerguelensis*, CLARK **49** p. 335.

†*Pygmaeocrinus* gen. n. for type *P. kettneri* sp. n. Devonian Bohemia, BOUŠKA Mém. Soc. Sci. Bohême Cl. Sci. **1946** 2 1947 pp. 1–4 pl. i figs. 1–4.

†*Rhodocrinus skourensis* p. 83 pl. cxxviii figs. 1–4, cf. *verus* p. 83 pl. cxxviii figs. 13–15, *R. sp.* pl. cxxviii figs. 7–12, 25–28, pl. cxxviii figs. 13–14, pl. cxxix figs. 21–23, TERMIER & TERMIER **309**.

†*Roveacrinus* sp. (n. sp. ?), SIEVERTS-DORECK **276** p. 97 figs. 1–24.

†*Salagastiana simetrica* gen. n. sp. n. [sic] Cambrian Argentina, RUSCONI An. Soc. cient. argent. **152** p. 257.

†*Schistocrinus ovalis* sp. n. Carboniferous U.S.A., STRIMPLE J. Wash. Acad. Sci. **41** p. 194 figs. 2–5.

†*Schizocrinus* cf. *nodosus*, TERMIER & TERMIER **309** p. 93 pl. cxxxii fig. 11.

†*Sciadiocrinus humilis* sp. n. Carboniferous U.S.A., STRIMPLE J. Paleont. Wis. **25** p. 373 pl. lvi figs. 11–14.

†*Scotiacrinus ardrossensis* p. 76, *tyriensis* p. 75 figs. 38–39, *yoredalensis* p. 77, WRIGHT **333**.

†*Scyphocrinus elegans*, RODRIGUEZ MELLADO **247** p. 428 pl. xxiii, pl. xxiv figs. 1–2.—*S. elegans* p. 85 pl. ccix figs. 1–13, pl. cxi figs. 1–6, 10, pl. cxxiii figs. 6–13, pl. cxxvi figs. 1–4, *S. sp.* p. 85 pl. ccx figs. 7–9, 12, TERMIER & TERMIER **309**.

†*Scytalocrinus aftonensis* sp. n. Carboniferous U.S.A., STRIMPLE J. Wash. Acad. Sci. **41** p. 294 figs. 1–4.—*S. loreus* p. 35, *seafieldensis* p. 34 pl. x fig. 2, WRIGHT **333**.—*S. sp.* indet. ?, SIEVERTS-DORECK **277** p. 140 fig. 6.

†*Stellarocrinus texani* sp. n. Carboniferous U.S.A., STRIMPLE J. Paleont. **25** pp. 202–203 pl. xxxvii figs. 13–16.—*S. virgilensis* sp. n. Carboniferous U.S.A., STRIMPLE J. Paleont. **25** p. 675 pl. xcvi figs. 1–2, 5–6.

*Stenometra* p. 7 with *S. dentata* p. 8, *diadema* p. 18 pl. ii fig. 5, *quinquecostata* p. 13 pl. i figs. 2–3, pl. ii figs. 4, 6–7, *snelliusi* p. 12 pl. i fig. 1, CLARK **48**.

*Stiremetra* p. 119, *S. decora* sp. n. New South Wales, CLARK Bull. U.S. Nat. Mus. No. 82 I 4c 1950 pp. 134–136 pl. v fig. 18; *acutiradia* p. 132, *breviradia* p. 126, *carinifera* p. 130, *lusitanica* p. 121, *perplexa* p. 129 pl. xiv fig. 44, *spinicirra* p. 136, Id.

*Strotometra* p. 361, *hepburniana* p. 368 pl. xxxi figs. 95–96, pl. xxxii fig. 104, *ornatissimum* p. 362 pl. xx fig. 65, *parvipinna* p. 365, *priamus* p. 363 pl. xxxi fig. 97, CLARK **48**.

†*Stuartwellerocrinus* sp., TERMIER & TERMIER **309** p. 91 pl. cxxii figs. 9–13.

*Stylometra* p. 29 with *S. spinifera* p. 30 pl. iii fig. 8, CLARK **48**.

†*Synbathocrinus* sp., TERMIER & TERMIER **309** p. 87 pl. cxxviii fig. 39.

†*Syndetocrinus boemicus* p. 15 fig. 5, pl. ii figs. 1–11, *depressus* p. 18 pl. ii figs. 12–13, BOUŠKA **28**. [These 2 spp. are given as spp. n. but see Zool. Rec. **85** (5) for 1948 p. 16.]

†*Taxocrinus* cf. *colletti* p. 92 pl. cxxiv fig. 32, *T. sp.* p. 92 pl. cxxvii figs. 1–2, pl. cxxviii figs. 40–45, pl. cxxxiii figs. 19–21, TERMIER & TERMIER **309**.

†*Telikosocrinus* gen. n. for type *T. caespes* sp. n. Carboniferous U.S.A., STRIMPLE J. Wash. Acad. Sci. **41** pp. 260–261 figs. 1–4; *residuus* sp. n. Carboniferous U.S.A., Id. p. 262 fig. 13.

*Thalasometra* p. 151, *agassizii* p. 158, *attenuata* p. 163 pl. xvii figs. 53–54, *bispinosa* p. 154, *echinata* p. 176, *electrae* p. 156, *gracilis* p. 173, *hawaiensis* p. 170, *hirsuta* p. 165 pl. xviii fig. 59, *latipinna* p. 171, *margaritifera* p. 168 pl. xvii fig. 55, *marginata* p. 168, *multispina* p. 180, *omissa* p. 184, *peripolos* p. 178 pl. xviii figs. 56–57, *setosa* p. 182, *villosa* p. 162 pl. xvii figs. 50–52, *T. sp.* p. 185, CLARK **48**.

†*Tholocrinus foveatus* sp. n. Carboniferous U.S.A., STRIMPLE J. Paleont. **25** pp. 674–675 pl. xcix figs. 1–2.

†*Timorocidaris* p. 360, cf. *fusiformis* p. 360 figs. 1a-c, *T. sphaeracantha* p. 363 figs. 2-3, WANNER 327.

†*Triacrinus* gen. n. for type *T. paradoxus* sp. n. Carboniferous Morocco, TERMIER & TERMIER Notes Mem. Serv. Carte géol. Maroc 79 1950 pp. 84, 100 pl. ccxiv figs. 10-13.

†*Tyrieocrinus laxus*, WRIGHT 333 pl. xix figs. 5-7, 15-16, 18-22.

†*Tytthocrinus comptus*, PECK & CONNELLY 228 p. 415 figs. 7-8.

†*Ureocrinus bockschii* pl. xix figs. 1-4, 8-9, *doliolus* pl. xix figs. 10, 13, U.? sp. pl. xii figs. 7-8, WRIGHT 333.

†*Woodocrinus fimbriatus* sp. n. de Koninck ms., Carboniferous England p. 58 pl. xxxvi fig. 2, *pentonensis* sp. n. Carboniferous Scotland pp. 56-57 pl. xxvi figs. 3-4, WRIGHT Palaeontogr. Soc. (Monogr.) London 1951; *decodactylus* p. 58, *expansus* p. 55 pl. xxi fig. 2, pl. xxvii figs. 1, 3-4, pl. xxviii figs. 2-4, pl. xxix figs. 1-3, *gravis* p. 53 figs. 16-20, pl. xxv figs. 2-9, *liddesdaleensis* p. 52 pl. xxii figs. 1-3, pl. xxiii figs. 1-2, pl. xxiv fig. 1, pl. xxv fig. 1, pl. xxvi figs. 1-2, pl. xxx fig. 10, W.? *longidactylus* p. 59 pl. xxix fig. 2, *W. macrodactylus* p. 48 fig. 15, pl. xx figs. 1-4, pl. xxi figs. 1, 3, pl. xxiii figs. 3-5, pl. xxiv figs. 2-3, 5, pl. xxvii fig. 1, pl. xxviii figs. 3-4, pl. xxix fig. 4, pl. xxx figs. 2, 5, 9, *whytei* p. 57 pl. xxiv fig. 4, pl. xxvi fig. 5, pl. xxxi fig. 15, Id.

#### †MACHAERIDIA

*Lepidocoleus* sp., TERMIER & TERMIER 309 p. 105 pl. cxxxiv figs. 6-7.

#### †EOCRINOIDEA

*Batherocystis* gen. n. for type *B. appressa* sp. n. Ordovician U.S.A., BASSLER J. Wash. Acad. Sci. 40 1950 p. 274 figs. 4-5.

*Columbocystis* gen. n. for type *C. typica* sp. n. Ordovician U.S.A., BASSLER J. Wash. Acad. Sci. 40 1950 pp. 273-274 figs. 1-2.

*Foerstecystis* gen. n. for type *F. obliqua* sp. n. Ordovician U.S.A., BASSLER J. Wash. Acad. Sci. 40 1950 p. 274 figs. 11-12.

Springerocystis gen. n. for type *S. longicollis* sp. n. Ordovician U.S.A., BASSLER J. Wash. Acad. Sci. 40 1950 p. 273 fig. 3.

#### †PARACRINOIDEA

*Billingsocystis* gen. n. for type *B. invaginata* sp. n. Ordovician U.S.A., BASSLER J. Wash. Acad. Sci. 40 1950 p. 274 fig. 17.

*Schuchertocystis* gen. n. for type *S. radiata* sp. n. Ordovician U.S.A., BASSLER J. Wash. Acad. Sci. 40 1950 pp. 275-276 figs. 13-14.

*Sinclairocystis* gen. n. for type *S. praedicta* sp. n. Ordovician U.S.A., BASSLER J. Wash. Acad. Sci. 40 1950 p. 276 figs. 9-10.

#### †CYSTIDEA

Gen. et spp. indet., HARRINGTON & KAY 115 p. 667 pl. xcvi fig. 14.—HSU & MA 131 p. 42 pl. ix figs. 13-15.—REGNELL 242 pp. 21, 35 pl. ii fig. 1, pl. vi figs. 1-6.

*Aristocystis gigas* pp. 96, 101 pl. cevii fig. 1, *regularis* pp. 96, 101 pl. cxxx figs. 3-7, spp. n. Ordovician Morocco, TERMIER & TERMIER Notes Mem. Serv. Carte géol. Maroc 79 1950.

*Calix sedgwicki* p. 95 pl. cxxxix figs. 1-5, *C. sp.* p. 94 pl. cxxx figs. 1-2, TERMIER & TERMIER 309.

*Cheirocrinus dilatus* sp. n. Ordovician Belgium, REGNELL Mém. Inst. roy. Sci. nat. Belg. No. 120 p. 13 pl. i fig. 9; cf. *constrictus*, Id. p. 10 pl. i figs. 1-8.

*Corylocrinus?* sp., REGNELL 242 p. 17 pl. vi fig. 8.

*Echinosphaerites barrandei belgicus* p. 27 pl. iii figs. 1-4, ?5-6, *E. sp.* p. 31 pl. v fig. 8, REGNELL 242.

*Enocrinoencrinites senckenbergii* vel *senkenbergii*, RICHTER 244 p. 269.

*Eucystis* spp., TERMIER & TERMIER 309 p. 94 pl. cxxxii figs. 15-20, pl. cxxxii figs. 6-8.

*Haplosphaeronis proiciens* sp. n. Ordovician Belgium, REGNELL Mém. Inst. roy. Sci. nat. Belg. No. 120 pp. 31-35 pl. iv figs. 1-7, pl. v figs. 1-7, pl. vi fig. 9.

*Heliocrinites malaisei* sp. n. Ordovician Belgium, REGNELL Mém. Inst. roy. Sci. nat. Belg. No. 120 pp. 25-27 pl. ii figs. 3-7; cf. *helmhackeri* p. 23 pl. ii fig. 2, sp. (group Plicata) p. 24 pl. iii fig. 7, Id.

*Hippocystis* sp., TERMIER & TERMIER 309 p. 96 pl. ccxxix fig. 15.

*Pachycalix pachytheca* sp. n. Ordovician Morocco, TERMIER & TERMIER Notes Mem. Serv. géol. Maroc 79 1950 pp. 95, 101 pl. cccxxix figs. 8-14, 15?

*Pleurocystites*? sp. 1 p. 14 pl. i figs. 12-13, sp. 2 p. 16 pl. i fig. 10, sp. 3 p. 16 pl. i fig. 11, REGNELL 242.

*Pseudoaristocystis dagon*, TERMIER & TERMIER 309 p. 96 pl. ccxxix figs. 18, 20-21.

*Regnelliocystis* gen. n. for type *R. typicalis* sp. n. Ordovician U.S.A., BASSLER J. Wash. Acad. Sci. 40 1950 p. 276 figs. 6-8.

*Sinocystis segaudi* sp. n. Ordovician Morocco, TERMIER & TERMIER Notes Mem. Serv. Carte géol. Maroc 79 1950 pp. 95, 101 pl. ccxxix figs. 6-14; cf. *yunnanensis*, Id. p. 95 pl. ccxxix figs. 16-17.

*Sphaeronites* cf. *globulus*, TERMIER & TERMIER 309 p. 94 pl. ccxxviii fig. 1.

Sphaeronitidae undet., TERMIER & TERMIER 309 pl. ccxxviii fig. 2.

*Strimplecystis* gen. n. for type *S. oklahomensis* sp. n. Ordovician U.S.A., BASSLER J. Wash. Acad. Sci. 40 1950 p. 277 fig. 19.

*Tomaculum problematicum*, TERMIER & TERMIER 309 p. 94 pl. cccxx fig. 15 (? coprolite of *Pachycalix pachytheca*).

*Ulrichocystis* gen. n. for type *U. eximia* sp. n. Ordovician U.S.A., BASSLER J. Wash. Acad. Sci. 40 1950 p. 276 fig. 18.

### †CARPOIDEA

*Gyrocytis* cf. *platessa*, TERMIER & TERMIER 309 p. 83 pl. ccvii figs. 4-10, pl. ccxxviii figs. 29-30.

*Kirkocystis* gen. n. for type *Enopleura*? *papillata* Bassler 1943, Ord-

vician U.S.A., BASSLER J. Wash. Acad. Sci. 40 1950 p. 277 figs. 15-16.

### †EDRIOASTEROIDEA

*Bassleridiscus* gen. n. for type *B. mohawensis* sp. n. Ordovician U.S.A., FISHER J. Paleont. 25 pp. 691-693 figs. 1-2.

### †BLASTOIDEA

*Angioblastus variabilis*, WANNER 328 p. 173 figs. 7-9.

*Anthoblastus brouweri*, WANNER 328 p. 174 fig. 11.

*Asteroblastus* spp., TERMIER & TERMIER 309 p. 97 pl. ccvii figs. 2-3, pl. ccxxxii figs. 1-2.

*Devonoblastus* sp., FISHER 89 p. 369 pl. iv fig. 9.

*Dipteroblastus permicus*, WANNER 328 p. 173 fig. 5.

*Granatocrinus* sp., TERMIER & TERMIER 309 p. 98 pl. ccvii figs. 11-14.

*Nannoblastus pyramidatus*, WANNER 328 p. 173 fig. 6.

*Neoschisma verrucosum*, WANNER 328 p. 173 fig. 3.

*Notoblastus brevispinus*, WANNER 328 p. 173 fig. 4.

*Nucleocrinus verneuili*, WANNER 328 p. 175 fig. 14.

*Pentablastus* gen. n. p. 113 for type *P. supracarbonicus* sp. n. Carboniferous Spain, SIEVERTS-DORECK Paläont. Z. Berlin 24 pp. 114-117 figs. 4, 6, pl. viii figs. 3-4.

*Pentremites* sp., TERMIER & TERMIER 309 p. 98.

*Pentremitidea touijinensis* sp. n. Devonian Morocco, TERMIER & TERMIER Notes Mem. Serv. Carte géol. Maroc 79 1950 pp. 97, 102 pl. ccxxxii figs. 13-14.

*Pteroblastus gracilis*, WANNER 328 p. 176 fig. 15.

*Schizoblastus batheri*, WANNER 328 p. 174 fig. 12.

*Sphaeroschisma somoholense*, WANNER  
328 p. 177 fig. 19.

*Stephanocrinus angulatus*, WANNER  
328 p. 182 fig. 21.

*Timoroblastus coronatus*, WANNER 328  
p. 171 fig. 1.

#### INCERTAE SEDIS

†*Cyclocystoides devonicus* sp. n. Devonian Germany, SIEVERTS-DORECK Senckenbergiana 32 pp. 22-28 figs. 2-3, pl. i figs. 1-3, pl. ii figs. 1-3.

†*Cymbionites craticula* not Echino-

derm, CUÉNOT & TÉTRY 65 p. 568.—*C. craticula*, SCHMIDT 271 p. 142.

†*Eocystites* ? *lasherensis* sp. n. Cambrian Argentina, RUSCONI An. Soc. argent. argent. 152 p. 257.

†Pelmatozoan indet., types A & B, REGNELL 242 p. 37 pl. v figs. 9-10, pl. vi figs. 7-8a.

†*Peridionites navicula* not Echinoderm, CUÉNOT & TÉTRY 65 p. 568.—*P. navicula*, SCHMIDT 271 p. 142.

†*Tomaculum problematicum*, TERMIER & TERMIER 309 p. 94 pl. cxxx fig. 15, ? coprolite of *Pachycolix pachy wholeca*.